

1900.

SB-97.41.1 (12)

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will be suitably rewarded on
returning it to the above address)



CALENDAR, 1900

1900	SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
JAN.	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31			
FEB.		4	5	6	7	8	9
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28			
MARCH.		4	5	6	7	8	9
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31
APRIL.	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30					
MAY.		6	7	8	9	10	11
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31		
					1	2	
JUNE.	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30

1900	SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
JULY.	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31				
AUG.		5	6	7	8	9	10
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	
SEPT.		2	3	4	5	6	7
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30						
OCT.		7	8	9	10	11	12
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31			
NOV.		4	5	6	7	8	9
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	
						1	
DEC.	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31					

ECLIPSES, 1900

There will be three Eclipses this year, two of the Sun and one of the Moon, as follows:

I. A Total Eclipse of the Sun, May 28, visible as a partial eclipse throughout most of the U. S. The line of totality extends from Norfolk, Va., to Mobile and New Orleans.

	Boston.	New York.	Washington.
Begins	8.9 A. M.	7.49 A. M.	7.40 A. M.
Middle	9.29 "	9.10 "	8.55 "
Ends	10.50 "	10.31 "	10.11 "

II. A Partial Eclipse of the Moon, June 13. This is so small as to scarcely amount to more than a contact, and details are therefore omitted.

III. An Annular Eclipse of the Sun, Nov. 22, invisible in America.

MORNING STARS.

MERCURY, until Feb. 9, and from March 24 to May 30, Aug. 1 to Sept. 13, and after Nov. 20. VENUS, after July 8. MARS, from Jan. 16 to Nov. 22. JUPITER, until Feb. 28, and after Dec. 14. SATURN, until March 25, and after Dec. 28. URANUS, until March 3, and after Dec. 5.

EVENING STARS.

MERCURY, from Feb. 9 to March 24, May 30 to Aug. 1, and Sept. 13 to Nov. 20. VENUS, until July 8. MARS, until Jan. 16, and after Nov. 22. JUPITER, from Feb. 28 to Dec. 14. SATURN, from March 25 to Dec. 29. URANUS, from March 3 to Dec. 5.

MOVABLE FEASTS.

Septuagesima Sun...	Feb. 11	Low Sunday.....	Apr. 22
Sexagesima " ... "	18	Rogation Sunday....	May 20
Quinquagesima " ... "	25	Ascension Thursday. "	24
Ash Wednesday	28	Whit-Sunday (Pent.)	June 3
Quadragesima Sun...Mar.	4	Trinity "	" 10
Mid-Lent " ... "	25	Corpus Christi.....	" 14
Palm Sunday	Apr. 8	Michaelmas.....	Sept. 29
Good Friday	13	Advent Sunday	Dec. 2
Easter Sunday.....	15	Christmas Day.....	" 25

CHRONOLOGICAL CYCLES.

Dominical Letter.....	G	Roman Indiction	13
Epact	29	Julian Period	6613
Lunar Cycle (Gold. No.)	1	Dionysian Period.....	229
Solar Cycle	5	Jewish Lunar Cycle	17

JANUARY, 1900

MOON'S PHASES.	East. Time.	Cent. Time.	West. Time.
New Moon... 1 D.	8 h. 52 m.	7 h. 52 m.	6 h. 52 m.
First Quarter. 8 D.	0 h. 40 m.	11 h. 40 (7)	10 h. 40 (7)
Full Moon... 15 D.	2 h. 7 m.	1 h. 7 m.	0 h. 7 m.
Last Quarter. 23 D.	6 h. 53 m.	5 h. 53 m.	4 h. 53 m.
New Moon... 30 D.	8 h. 22 m.	7 h. 22 m.	6 h. 22 m.

New-York City,
Phila., Conn., New Jersey,
Penn., O., Ind., & Ill.

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

MEAN TIME.			STAN. TIME.	D. OF MO.	D. OF WK.	MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. N. Y. Gov. Is.			Sun rises	Sun sets	Moon sets	H. W. Boston. N. Yard
7 25	4 43	5 8	8 26	1	M.	7 30	4 38	5 4	11 31
7 25	4 44	6 24	9 18	2	T.	7 30	4 39	6 20	morn
7 25	4 45	7 39	10 9	3	W.	7 30	4 40	7 36	20
7 25	4 46	8 53	10 52	4	Th.	7 30	4 41	8 52	1 11
7 25	4 47	10 6	11 41	5	F.	7 30	4 42	10 6	1 58
7 25	4 48	11 18	morn	6	S.	7 29	4 43	11 19	2 44
7 25	4 49	morn	32	7	S.	7 29	4 44	morn	3 34
7 24	4 50	27	1 26	8	M.	7 29	4 45	29	4 27
7 24	4 51	1 35	2 26	9	T.	7 29	4 46	1 39	5 28
7 24	4 52	2 42	3 27	10	W.	7 29	4 47	2 47	6 20
7 24	4 53	3 46	4 31	11	Th.	7 29	4 48	3 51	7 34
7 23	4 54	4 45	5 32	12	F.	7 28	4 50	4 50	8 35
7 23	4 55	5 38	6 28	13	S.	7 28	4 51	5 43	9 30
7 23	4 56	6 24	7 17	14	S.	7 28	4 52	6 29	10 20
7 22	4 57	rises	8 41	15	M.	7 27	4 53	rises	11 4
7 22	4 59	6 8	9 20	16	T.	7 27	4 54	6 5	11 44
7 21	5 0	7 8	9 57	17	W.	7 26	4 55	7 6	cv. 22
7 21	5 1	8 5	10 33	18	Th.	7 26	4 56	8 4	59
7 21	5 2	9 2	11 7	19	F.	7 25	4 58	9 2	1 37
7 20	5 3	10 0	11 46	20	S.	7 24	4 59	10 1	2 12
7 19	5 4	10 58	ev. 28	21	S.	7 24	5 0	11 0	2 49
7 18	5 5	11 58	1 16	22	M.	7 23	5 1	morn	3 30
7 17	5 7	morn	2 9	23	T.	7 22	5 3	1	4 17
7 17	5 8	1 0	3 8	24	W.	7 22	5 4	1 4	5 11
7 16	5 9	2 3	4 11	25	Th.	7 21	5 5	2 7	6 10
7 16	5 10	3 8	5 18	26	F.	7 20	5 6	3 12	7 17
7 15	5 11	4 7	6 22	27	S.	7 19	5 8	4 12	8 21
7 14	5 13	5 4	7 19	28	S.	7 18	5 9	5 8	9 24
7 13	5 14	5 54	8 9	29	M.	7 17	5 10	5 58	10 22
7 12	5 15	6 38	8 59	30	T.	7 16	5 12	6 41	11 14
7 12	5 16	7 15	8 59	31	W.	7 15	5 13	7 18	morn

Heavy figures, 12 noon to 12 midnight.

FEBRUARY, 1900

MOON'S PHASES.	East. Time.	Cent. Time.	West. Time.
First Quarter. 6 D.	11 h. 23 m.	10 h. 23 m.	9 h. 23 m.
Full Moon... 14 D.	8 h. 50 m.	7 h. 50 m.	6 h. 50 m.
Last Quarter. 22 D.	11 h. 44 m.	10 h. 44 m.	9 h. 44 m.

New-York City,
Phila., Conn., New Jersey,
Penn., O., Ind., & Ill.

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

MEAN TIME.			STAN. TIME.	D. OF MO.	D. OF WK.	MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. N. Y. Gov. Is.			Sun rises	Sun sets	Moon sets	H. W. Boston. N. Yard
7 11	5 18	7 38	9 45	1	Th.	7 14	5 14	7 37	1
7 10	5 19	8 58	10 31	2	F.	7 13	5 15	8 59	47
7 9	5 20	10 12	11 15	3	S.	7 12	5 16	10 14	1 35
7 7	5 21	11 21	morn	4	S.	7 11	5 18	11 27	2 21
7 6	5 22	morn	8	5	M.	7 10	5 19	morn	3 11
7 5	5 23	33	1 4	6	T.	7 9	5 21	37	4 5
7 4	5 25	1 38	2 1	7	W.	7 8	5 22	1 43	5 3
7 3	5 26	2 39	3 7	8	Th.	7 6	5 23	2 44	6 9
7 2	5 27	3 35	4 13	9	F.	7 5	5 24	3 40	7 16
7 1	5 28	4 22	5 14	10	S.	7 4	5 25	4 28	8 17
7 0	5 30	5 5	6 6	11	S.	7 2	5 26	5 9	9 8
6 58	5 31	5 40	6 54	12	M.	7 1	5 28	5 44	9 56
6 57	5 32	6 11	7 34	13	T.	7 0	5 29	6 14	10 39
6 56	5 34	rises	8 9	14	W.	6 59	5 30	rises	11 15
6 55	5 35	6 55	8 49	15	Th.	6 57	5 32	6 55	11 52
6 53	5 36	7 53	9 24	16	F.	6 56	5 33	7 53	ev. 26
6 52	5 37	8 50	9 59	17	S.	6 54	5 35	8 51	1 1
6 51	5 39	9 49	10 31	18	S.	6 53	5 36	9 52	1 37
6 49	5 40	10 49	11 11	19	M.	6 52	5 38	10 53	2 18
6 48	5 41	11 51	11 54	20	T.	6 50	5 39	11 55	2 57
6 46	5 43	morn	ev. 43	21	W.	6 48	5 40	morn	3 44
6 45	5 44	52	1 39	22	Th.	6 47	5 42	57	4 40
6 44	5 45	1 51	2 43	23	F.	6 45	5 43	1 56	5 45
6 42	5 46	2 49	3 48	24	S.	6 44	5 45	2 54	6 51
6 41	5 48	3 40	4 55	25	S.	6 42	5 46	3 45	8 0
6 39	5 49	4 25	6 0	26	M.	6 41	5 47	4 30	9 2
6 38	5 50	5 6	6 57	27	T.	6 39	5 49	5 9	9 59
6 37	5 51	5 42	7 44	28	W.	6 38	5 50	5 44	10 50

MARCH, 1900

MOON'S PHASES.	East. Time.	Cent. Time.	West. Time.
New Moon... 1 D.	6 h. 25 m.	5 h. 25 m.	4 h. 25 m.
First Quarter. 8 D.	0 h. 34 m.	11 h. 34 (7)	10 h. 34 (7)
Full Moon... 16 D.	3 h. 12 m.	2 h. 12 m.	1 h. 12 m.
Last Quarter. 24 D.	0 h. 36 m.	11 h. 36 (23)	10 h. 36 (23)
New Moon... 30 D.	3 h. 30 m.	2 h. 30 m.	1 h. 30 m.

New-York City,
Phila., Conn., New Jersey,
Penn., O., Ind., & Ill.

MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. N. Y. Gov. Is.
6 35	5 53	6 31	8 33
6 34	5 53	7 49	9 21
6 32	5 54	9 1	10 6
6 30	5 55	10 14	10 53
6 29	5 56	11 25	11 46
6 27	5 57	morn	morn
6 25	5 58	29	42
6 24	5 59	1 28	1 42
6 22	6 0	2 21	2 46
6 20	6 1	3 3	3 46
6 19	6 2	3 42	4 43
6 17	6 3	4 14	5 37
6 16	6 4	4 42	6 23
6 14	6 5	5 9	7 4
6 12	6 6	5 33	7 39
6 11	6 8	rises	8 12
6 9	6 9	7 43	8 51
6 7	6 10	8 41	9 28
6 6	6 11	9 42	10 6
6 4	6 12	10 43	10 44
6 2	6 13	11 42	11 28
6 1	6 14	morn	ev. 20
5 59	6 15	38	1 18
5 58	6 16	1 31	2 20
5 56	6 17	2 17	3 27
5 54	6 18	2 58	4 34
5 52	6 19	3 35	5 35
5 51	6 20	4 9	6 32
5 49	6 21	4 43	7 22
5 47	6 22	5 16	8 9
5 45	6 23	5 52	8 57

D. OF MO.
D. OF WK.

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. Boston. N. Yard
6 36	5 51	6 31	11 38
6 35	5 52	7 49	morn
6 33	5 53	9 4	23
6 31	5 54	10 17	1 11
6 30	5 55	11 29	1 59
6 28	5 56	morn	2 49
6 26	5 57	35	3 43
6 25	5 58	1 33	4 43
6 23	5 59	2 25	5 48
6 21	6 0	3 8	6 49
6 20	6 2	3 46	7 46
6 18	6 3	4 17	8 40
6 16	6 4	4 43	9 25
6 14	6 5	5 10	10 6
6 13	6 6	5 33	10 44
6 11	6 7	rises	11 18
6 9	6 9	7 45	11 55
6 7	6 10	8 44	ev. 30
6 6	6 11	9 46	1 8
6 4	6 12	10 47	1 50
6 2	6 13	11 48	2 38
6 0	6 14	morn	3 22
5 59	6 15	43	4 19
5 57	6 16	1 36	5 22
5 55	6 17	2 21	6 29
5 53	6 18	3 1	7 37
5 52	6 19	3 38	8 38
5 50	6 20	4 10	9 34
5 48	6 21	4 43	10 26
5 46	6 22	5 15	11 14
5 44	6 23	5 50	11 59

* APRIL, 1900 *

MOON'S PHASES.	East. Time.	Cent. Time.	West. Time.
First Quarter. 6 D.	3 h. 54 m.	2 h. 54 m.	1 h. 54 m.
Full Moon... 14 D.	8 h. 2 m.	7 h. 2 m.	6 h. 2 m.
Last Quarter. 22 D.	9 h. 33 m.	8 h. 33 m.	7 h. 33 m.
New Moon... 29 D.	0 h. 23 m.	11 h. 23 (28)	10 h. 23 (28)

New-York City,
Phila., Conn., New Jersey,
Penn., O., Ind., & Ill.

MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. N. Y. Gov. Is.
5 44	6 24	9 2	9 46
5 42	6 26	10 11	10 32
5 41	6 27	11 15	11 24
5 39	6 28	morn	morn
5 37	6 29	12	21
5 36	6 30	58	1 18
5 34	6 31	1 38	2 15
5 33	6 32	2 14	3 11
5 31	6 33	2 44	4 5
5 30	6 34	3 10	4 55
5 28	6 35	3 36	5 42
5 26	6 36	4 1	6 25
5 25	6 37	4 27	7 6
5 24	6 38	rises	7 42
5 22	6 39	7 35	8 18
5 20	6 40	8 36	9 1
5 19	6 41	9 37	9 42
5 17	6 42	10 35	10 25
5 16	6 43	11 27	11 12
5 14	6 44	morn	ev. 5
5 13	6 45	13	1 2
5 11	6 46	56	2 0
5 10	6 47	1 32	3 5
5 8	6 48	2 9	4 7
5 7	6 49	2 41	5 8
5 6	6 50	3 12	6 5
5 4	6 51	3 35	6 59
5 3	6 52	4 21	7 45
5 2	6 53	sets	8 37
5 0	6 55	8 55	9 28

D. OF MO.
D. OF WK.

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. Boston. N. Yard
5 43	6 25	9 6	morn
5 41	6 27	10 15	48
5 40	6 28	11 19	1 38
5 38	6 29	morn	2 32
5 36	6 30	16	3 23
5 35	6 31	1 3	4 19
5 33	6 32	1 43	5 17
5 31	6 33	2 18	6 13
5 30	6 34	2 46	7 8
5 28	6 36	3 11	7 59
5 26	6 37	3 37	8 45
5 25	6 38	4 1	9 27
5 23	6 39	4 26	10 8
5 21	6 40	rises	10 47
5 20	6 41	7 39	11 24
5 18	6 42	8 41	ev. 3
5 16	6 43	9 42	44
5 15	6 45	10 39	1 29
5 13	6 46	11 33	2 17
5 12	6 47	morn	3 8
5 10	6 48	17	4 3
5 9	6 49	59	5 2
5 7	6 50	1 35	6 7
5 6	6 51	2 10	7 10
5 4	6 52	2 42	8 11
5 3	6 53	3 11	9 7
5 1	6 55	3 33	10 1
5 0	6 56	4 18	10 51
4 58	6 57	sets	11 42
4 57	6 58	9 0	morn

* MAY, 1900 *

MOON'S PHASES.	East. Time.	Cent. Time.	West. Time.
First Quarter. 6 D.	8 h. 39 m.	7 h. 39 m.	6 h. 39 m.
Full Moon...14 D.	10 h. 36 m.	9 h. 36 m.	8 h. 36 m.
Last Quarter. 21 D.	3 h. 31 m.	2 h. 31 m.	1 h. 31 m.
New Moon...28 D.	9 h. 50 m.	8 h. 50 m.	7 h. 50 m.

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MEAN TIME.			STAN. TIME.	D. OF MO.	D. OF WK.	MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. N. Y. Gov. Is.			Sun rises	Sun sets	Moon sets	H. W. Boston. N. Yard
4 59	6 56	9 57	10 17	1	T.	4 56	7 0	10 1	30
4 58	6 57	10 49	11 4	2	W.	4 54	7 1	10 54	1 20
4 56	6 58	11 34	11 55	3	Th.	4 53	7 2	11 39	2 9
4 55	6 59	morn	morn	4	F.	4 52	7 3	morn	2 58
4 54	7 0	12	46	5	S.	4 51	7 4	16	3 47
4 53	7 1	44	1 38	6	S.	4 49	7 5	47	4 39
4 52	7 2	1 13	2 29	7	M.	4 48	7 6	1 15	5 31
4 51	7 3	1 39	3 20	8	T.	4 47	7 7	1 40	6 22
4 49	7 4	2 4	4 7	9	W.	4 46	7 8	2 4	7 10
4 48	7 5	2 29	4 55	10	Th.	4 44	7 9	2 28	7 59
4 47	7 6	2 55	5 43	11	F.	4 43	7 10	2 53	8 46
4 46	7 7	3 24	6 29	12	S.	4 42	7 11	3 21	9 31
4 45	7 8	3 56	7 12	13	S.	4 41	7 12	3 52	10 15
4 44	7 9	rises	7 53	14	M.	4 40	7 13	rises	10 59
4 43	7 10	8 27	8 42	15	T.	4 39	7 14	8 33	11 44
4 42	7 11	9 22	9 25	16	W.	4 38	7 15	9 28	ev. 27
4 41	7 12	10 13	10 11	17	Th.	4 37	7 16	10 17	1 14
4 40	7 13	10 56	10 58	18	F.	4 36	7 17	11 0	2 3
4 39	7 14	11 34	11 50	19	S.	4 35	7 18	11 37	2 53
4 39	7 15	morn	ev. 44	20	S.	4 34	7 19	morn	3 45
4 38	7 16	8	1 40	21	M.	4 33	7 20	10	4 41
4 37	7 17	40	2 38	22	T.	4 32	7 21	41	5 40
4 36	7 18	1 12	3 41	23	W.	4 31	7 22	1 12	6 44
4 36	7 19	1 43	4 40	24	Th.	4 31	7 23	1 41	7 45
4 35	7 20	2 17	5 41	25	F.	4 30	7 24	2 15	8 44
4 34	7 20	2 55	6 38	26	S.	4 29	7 25	2 52	9 40
4 34	7 21	3 38	7 31	27	S.	4 29	7 26	3 34	10 35
4 33	7 22	sets	8 18	28	M.	4 28	7 27	sets	11 24
4 32	7 23	8 36	9 11	29	T.	4 27	7 28	8 42	morn
4 32	7 23	9 25	9 57	30	W.	4 27	7 28	9 30	12
4 31	7 24	10 8	10 40	31	Th.	4 26	7 29	10 12	59

* JUNE, 1900 *

MOON'S PHASES.	East. Time.	Cent. Time.	West. Time.
First Quarter. 5 D.	1 h. 58 m.	0 h. 58 m.	11 h. 58 (4)
Full Moon...12 D.	10 h. 38 m.	9 h. 38 m.	8 h. 38 m.
Last Quarter. 19 D.	7 h. 57 m.	6 h. 57 m.	5 h. 57 m.
New Moon...26 D.	8 h. 27 m.	7 h. 27 m.	6 h. 27 m.

New-York City,
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Penn., O., Ind., & Ill.

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

MEAN TIME.			STAN. TIME.	D. OF MO.	D. OF WK.	MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. N. Y. Gov. Is.			Sun rises	Sun sets	Moon sets	H. W. Boston. N. Yard
4 31	7 24	10 42	11 24	1	F.	4 25	7 30	10 46	1 46
4 30	7 25	11 13	morn	2	S.	4 25	7 30	11 16	2 30
4 30	7 26	11 41	10	3	S.	4 25	7 31	11 43	3 13
4 30	7 26	morn	54	4	M.	4 24	7 32	morn	3 55
4 29	7 27	6	1 41	5	T.	4 24	7 32	6	4 42
4 29	7 28	31	2 29	6	W.	4 24	7 33	30	5 31
4 29	7 28	57	3 19	7	Th.	4 23	7 33	55	6 21
4 29	7 29	1 24	4 8	8	F.	4 23	7 34	1 21	7 11
4 28	7 30	1 54	5 0	9	S.	4 23	7 35	1 51	7 54
4 28	7 30	2 29	5 54	10	S.	4 23	7 36	2 24	8 56
4 28	7 31	3 8	6 44	11	M.	4 22	7 36	3 3	9 46
4 28	7 31	rises	7 32	12	T.	4 22	7 37	rises	10 37
4 28	7 32	8 8	8 19	13	W.	4 22	7 37	8 13	11 25
4 28	7 32	8 54	9 11	14	Th.	4 22	7 38	8 59	ev. 12
4 28	7 32	9 33	9 58	15	F.	4 22	7 38	9 36	1 0
4 28	7 33	10 10	10 44	16	S.	4 22	7 38	10 12	1 42
4 28	7 33	10 43	11 31	17	S.	4 22	7 39	10 44	2 35
4 28	7 33	11 15	ev. 23	18	M.	4 22	7 39	11 15	3 25
4 28	7 34	11 45	1 18	19	T.	4 22	7 39	11 44	4 18
4 29	7 34	morn	2 14	20	W.	4 23	7 40	morn	5 16
4 29	7 34	18	3 14	21	Th.	4 23	7 40	16	6 16
4 29	7 34	54	4 19	22	F.	4 23	7 40	50	7 22
4 29	7 34	1 34	5 13	23	S.	4 23	7 40	1 29	8 26
4 29	7 34	2 19	6 22	24	S.	4 23	7 40	2 14	9 24
4 30	7 35	3 9	7 16	25	M.	4 24	7 41	3 5	10 19
4 30	7 35	4 8	8 3	26	T.	4 24	7 41	4 2	11 8
4 30	7 35	sets	8 51	27	W.	4 24	7 41	sets	11 54
4 31	7 35	8 40	9 34	28	Th.	4 25	7 40	8 44	morn
4 31	7 35	9 14	10 14	29	F.	4 25	7 40	9 16	36
4 32	7 35	9 42	10 51	30	S.	4 26	7 40	9 44	1 17

* JULY, 1900 *

MOON'S PHASES.	East. Time.	Cent. Time.	West. Time.
First Quarter. 4 D.	7 h. 13 m.	6 h. 13 m.	5 h. 13 m.
Full Moon...12 D.	8 h. 22 m.	7 h. 22 m.	6 h. 22 m.
Last Quarter. 19 D.	0 h. 31 m.	11 h. 31 (18)	10 h. 31 (18)
New Moon...26 D.	8 h. 43 m.	7 h. 43 m.	6 h. 43 m.

New-York City,
Phila., Conn., New Jersey,
Penn., O., Ind., & Ill.

MEAN TIME.			STAN. TIME.	
Sun rises	Sun sets	Moon sets	H. W. N. Y. Gov. Is.	
4 32	7 35	10 7	11 30	
4 32	7 35	10 34	morn	
4 33	7 34	10 59		12
4 33	7 34	11 25		54
4 34	7 34	11 53	1	41
4 35	7 34	morn	2	31
4 35	7 33	24	3	25
4 36	7 33	1 2	4	23
4 37	7 33	1 47	5	24
4 37	7 32	2 37	6	21
4 38	7 32	3 40	7	15
4 39	7 31	rises	8	3
4 39	7 31	8 10	8	53
4 40	7 30	8 45	9	42
4 41	7 30	9 17	10	25
4 42	7 29	9 50	11	11
4 43	7 29	10 21	ev.	1
4 44	7 28	10 56		53
4 44	7 27	11 34	1	52
4 45	7 26	morn	2	55
4 46	7 26	17	4	2
4 47	7 25	1 5	5	7
4 48	7 24	2 0	6	6
4 48	7 23	2 58	7	0
4 49	7 23	3 57	7	45
4 50	7 22	sets	8	25
4 51	7 21	7 44	9	6
4 52	7 20	8 12	9	42
4 53	7 19	8 36	10	19
4 54	7 18	9 2	10	52
4 55	7 17	9 26	11	31

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. Boston N. Yaro
4 26	7 40	10 9	1 57
4 26	7 40	10 34	2 34
4 27	7 40	10 57	3 14
4 28	7 40	11 23	3 55
4 29	7 39	11 50	4 42
4 29	7 39	morn	5 33
4 30	7 39	21	6 27
4 30	7 38	58	7 26
4 31	7 38	1 42	8 27
4 32	7 38	2 33	9 23
4 33	7 37	3 35	10 18
4 33	7 37	rises	11 8
4 34	7 36	8 13	11 55
4 35	7 36	8 47	ev. 14
4 36	7 35	9 17	1 29
4 37	7 34	9 49	2 16
4 37	7 34	10 20	3 4
4 38	7 33	10 53	3 54
4 39	7 32	11 31	4 54
4 40	7 31	morn	5 57
4 41	7 30	13	7 5
4 42	7 30	1 0	8 0
4 43	7 29	1 54	9 8
4 44	7 28	2 53	10 2
4 45	7 27	3 53	10 50
4 46	7 26	sets	11 29
4 47	7 25	7 46	morn
4 48	7 24	8 13	
4 49	7 23	8 36	4
4 50	7 22	9 1	1 2
4 51	7 21	9 25	1 5

AUGUST, 1900

MOON'S PHASES.	East. Time.	Cent. Time.	West. Time.
First Quarter. 3 D.	11 h. 45 m.	10 h. 45 m.	9 h. 45 m.
Full Moon...10 D.	4 h. 30 m.	3 h. 30 m.	2 h. 30 m.
Last Quarter. 17 D.	6 h. 46 m.	5 h. 46 m.	4 h. 46 m.
New Moon...24 D.	10 h. 52 m.	9 h. 52 m.	8 h. 52 m.

New-York City,
Phila., Conn., New Jersey,
Penn., O., Ind., & Ill.

MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. N. Y. Gov. Is.
4 56	7 16	9 55	morn
4 57	7 14	10 14	I
4 58	7 13	10 58	I 0
4 59	7 12	11 39	I 50
5 0	7 11	morn	2 49
5 1	7 10	25	3 50
5 2	7 9	I 26	4 55
5 3	7 7	2 25	5 58
5 4	7 6	3 34	6 55
5 5	7 5	rises	7 45
5 6	7 4	7 16	8 32
5 7	7 2	7 49	9 19
5 8	7 1	8 23	10 7
5 9	7 0	8 58	10 49
5 10	6 58	9 34	11 40
5 11	6 57	10 17	ev. 34
5 12	6 55	11 5	1 36
5 13	6 54	11 57	2 42
5 14	6 53	morn	3 46
5 15	6 51	51	4 49
5 16	6 50	I 50	5 46
5 16	6 48	2 50	6 37
5 17	6 47	3 51	7 20
5 18	6 45	4 52	7 59
5 19	6 44	sets	8 33
5 20	6 42	7 7	9 11
5 21	6 41	7 32	9 45
5 22	6 39	7 59	10 19
5 23	6 37	8 27	10 57
5 24	6 36	9 0	11 39
5 25	6 34	9 36	morn

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

MEAN TIME.			STAN. TIME
Sun rises	Sun sets	Moon sets	H. W. Boston N. Yards
4 52	7 20	9 52	2 35
4 53	7 18	10 11	3 15
4 54	7 17	10 54	4 1
4 55	7 16	11 34	4 52
4 56	7 15	morn	5 51
4 57	7 14	21	6 53
4 58	7 12	1 18	7 59
4 59	7 11	2 21	9 0
5 0	7 10	3 31	9 57
5 1	7 8	rises	10 50
5 2	7 7	7 17	11 37
5 3	7 6	7 49	ev. 21
5 4	7 4	8 22	1 9
5 5	7 3	8 55	1 55
5 6	7 1	9 31	2 44
5 7	7 0	10 12	3 36
5 8	6 58	11 0	4 37
5 10	6 57	11 51	5 44
5 11	6 55	morn	6 49
5 12	6 54	46	7 53
5 13	6 52	1 45	8 49
5 14	6 51	2 46	9 39
5 15	6 49	3 48	10 23
5 16	6 48	4 50	11 5
5 17	6 46	sets	11 38
5 18	6 44	7 7	morn
5 19	6 43	7 31	12
5 20	6 41	7 57	47
5 21	6 39	8 24	1 23
5 22	6 38	8 56	2 3
5 23	6 36	9 32	2 43

SEPTEMBER, 1900

MOON'S PHASES.	East. Time.	Cent. Time.	West. Time.
First Quarter. 2 D.	2 h. 56 m.	1 h. 56 m.	0 h. 56 m.
Full Moon... 9 D.	0 h. 6 m.	11 h. 6 (8)	10 h. 6 (8)
Last Quarter. 15 D.	3 h. 57 m.	2 h. 57 m.	1 h. 57 m.
New Moon... 23 D.	2 h. 57 m.	1 h. 57 m.	0 h. 57 m.

New-York City, Phila., Conn., New Jersey, Penn., O., Ind., & Ill.				D. OF MO.	D. OF WK.	Boston, New England, New-York, Mich., Wis., Iowa, and Oregon.			
MEAN TIME.			STAN. TIME.			MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. N. Y. Gov. Is.			Sun rises	Sun sets	Moon sets	H. W. Boston. N. Yard
5 26	6 33	10 20	26	1	S.	5 24	6 35	10 15	3 28
5 27	6 31	11 11	1 20	2	S.	5 26	6 33	11 6	4 21
5 28	6 29	morn	2 18	3	M.	5 27	6 31	morn	5 20
5 29	6 28	8	3 24	4	T.	5 28	6 29	3	6 34
5 30	6 26	1 12	4 30	5	W.	5 29	6 28	1 8	7 33
5 31	6 25	2 22	5 33	6	Th.	5 30	6 26	2 19	8 36
5 32	6 23	3 35	6 31	7	F.	5 31	6 24	3 32	9 33
5 33	6 21	4 39	7 22	8	S.	5 32	6 22	4 37	10 26
5 34	6 20	rises	8 9	9	S.	5 33	6 21	rises	11 14
5 35	6 18	6 55	8 56	10	M.	5 34	6 19	6 53	11 58
5 36	6 16	7 32	9 44	11	T.	5 35	6 17	7 29	ev. 46
5 37	6 15	8 13	10 40	12	W.	5 36	6 15	8 9	1 36
5 38	6 13	9 1	11 21	13	Th.	5 37	6 14	8 56	2 37
5 39	6 11	9 51	ev. 19	14	F.	5 38	6 12	9 46	3 21
5 40	6 9	10 47	1 19	15	S.	5 39	6 10	10 42	4 20
5 41	6 8	11 45	2 20	16	S.	5 40	6 8	11 41	5 22
5 42	6 6	morn	3 24	17	M.	5 41	6 7	morn	6 26
5 43	6 4	45	4 23	18	T.	5 43	6 5	41	7 26
5 44	6 3	1 45	5 16	19	W.	5 44	6 3	1 42	8 19
5 45	6 1	2 43	6 4	20	Th.	5 45	6 1	2 40	9 6
5 46	5 59	3 42	6 47	21	F.	5 46	6 0	3 41	9 49
5 47	5 58	4 40	7 26	22	S.	5 47	5 58	4 40	10 30
5 48	5 56	5 36	7 59	23	S.	5 48	5 56	5 36	11 4
5 49	5 55	sets	8 36	24	M.	5 49	5 54	sets	11 42
5 50	5 53	6 31	9 15	25	T.	5 50	5 53	6 28	morn
5 51	5 52	7 0	9 52	26	W.	5 51	5 51	6 57	16
5 52	5 50	7 38	10 31	27	Th.	5 52	5 49	7 34	54
5 53	5 48	8 18	11 11	28	F.	5 53	5 47	8 14	1 35
5 54	5 46	9 6	morn	29	S.	5 54	5 46	9 1	2 17
5 54	5 44	9 59	2	30	S.	5 56	5 44	9 54	3 5

OCTOBER, 1900

MOON'S PHASES.	East. Time.	Cent. Time.	West. Time.
First Quarter. 1 D.	4 h. 10 m.	3 h. 10 m.	2 h. 10 m.
Full Moon... 8 D.	8 h. 18 m.	7 h. 18 m.	6 h. 18 m.
Last Quarter. 15 D.	4 h. 51 m.	3 h. 51 m.	2 h. 51 m.
New Moon... 23 D.	8 h. 27 m.	7 h. 27 m.	6 h. 27 m.
First Quarter. 31 D.	3 h. 17 m.	2 h. 17 m.	1 h. 17 m.

New-York City, Phila., Conn., New Jersey, Penn., O., Ind., & Ill.				D. OF MO.	D. OF WK.	Boston, New England, New-York, Mich., Wis., Iowa, and Oregon.			
MEAN TIME.			STAN. TIME.			MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. N. Y. Gov. Is.			Sun rises	Sun sets	Moon sets	H. W. Boston. N. Yard
5 56	5 43	10 59	55	1	M.	5 57	5 42	10 54	3 56
5 57	5 41	morn	1 54	2	T.	5 58	5 40	12 0	4 56
5 58	5 39	4	2 56	3	W.	5 59	5 39	morn	5 58
5 59	5 38	1 12	4 2	4	Th.	6 0	5 37	1 9	7 5
6 0	5 36	2 24	5 5	5	F.	6 1	5 35	2 22	8 8
6 1	5 35	3 35	6 2	6	S.	6 2	5 33	3 34	9 4
6 2	5 33	4 50	6 57	7	S.	6 3	5 32	4 51	10 1
6 3	5 31	rises	7 46	8	M.	6 4	5 30	rises	10 51
6 4	5 30	6 5	8 34	9	T.	6 6	5 28	6 2	11 39
6 5	5 28	6 51	9 25	10	W.	6 7	5 27	6 46	ev. 27
6 7	5 27	7 44	10 15	11	Th.	6 8	5 25	7 39	1 18
6 8	5 25	8 38	11 6	12	F.	6 9	5 23	8 33	2 11
6 9	5 23	9 38	ev. 1	13	S.	6 10	5 22	9 33	3 4
6 10	5 22	10 38	59	14	S.	6 11	5 20	10 33	4 0
6 11	5 20	11 37	1 54	15	M.	6 13	5 19	11 33	4 56
6 12	5 19	morn	2 51	16	T.	6 14	5 17	morn	5 53
6 13	5 17	38	3 46	17	W.	6 15	5 15	36	6 49
6 14	5 16	1 36	4 37	18	Th.	6 16	5 14	1 35	7 40
6 15	5 14	2 33	5 26	19	F.	6 17	5 12	2 33	8 29
6 16	5 13	3 25	6 10	20	S.	6 18	5 11	3 25	9 2
6 18	5 12	4 27	6 50	21	S.	6 20	5 9	4 28	9 52
6 19	5 10	5 25	7 30	22	M.	6 21	5 8	5 27	10 34
6 20	5 9	6 23	8 6	23	T.	6 22	5 6	6 26	11 11
6 21	5 7	sets	8 47	24	W.	6 23	5 5	sets	11 50
6 22	5 6	6 18	9 28	25	Th.	6 24	5 3	6 14	morn
6 23	5 4	7 3	10 9	26	F.	6 26	5 2	6 58	31
6 24	5 3	7 55	10 53	27	S.	6 27	5 1	7 50	1 12
6 26	5 2	8 52	11 42	28	S.	6 28	4 59	8 48	1 59
6 27	5 1	9 54	morn	29	M.	6 29	4 58	9 50	2 45
6 28	4 59	10 59	34	30	T.	6 31	4 57	10 56	3 36
6 29	4 58	morn	1 32	31	W.	6 32	4 55	morn	4 33

NOVEMBER, 1900

MOON'S PHASES.	East. Time.	Cent. Time.	West. Time.
Full Moon... 6 D.	6 h. 0 m.	5 h. 0 m.	4 h. 0 m.
Last Quarter... 13 D.	9 h. 37 m.	8 h. 37 m.	7 h. 37 m.
New Moon... 22 D.	2 h. 17 m.	1 h. 17 m.	0 h. 17 m.
First Quarter... 29 D.	0 h. 35 m.	11 h. 35 m.	10 h. 35 m.

New-York City,
Phila., Conn., New Jersey,
Penn., O., Ind., & Ill.

MEAN TIME.			STAN. TIME.	D. OF MO.	D. OF WK.
Sun rises	Sun sets	Moon sets	H. W. N. Y. Gov. Is.		
6 30	4 57	6	2 30	1	Th.
6 31	4 56	1 16	3 31	2	F.
6 32	4 54	2 25	4 32	3	S.
6 34	4 53	3 39	5 33	4	S.
6 35	4 52	4 53	6 31	5	M.
6 36	4 51	6 7	7 24	6	T.
6 37	4 50	rises	8 12	7	W.
6 38	4 49	6 24	9 9	8	Th.
6 40	4 48	7 23	9 59	9	F.
6 41	4 47	8 25	10 46	10	S.
6 42	4 46	9 26	11 38	11	S.
6 43	4 45	10 28	ev. 28	12	M.
6 44	4 44	11 27	1 20	13	T.
6 46	4 43	morn	2 10	14	W.
6 47	4 42	26	3 2	15	Th.
6 48	4 41	1 22	3 46	16	F.
6 49	4 40	2 20	4 39	17	S.
6 50	4 39	3 16	5 28	18	S.
6 51	4 39	4 14	6 14	19	M.
6 53	4 38	5 14	6 59	20	T.
6 54	4 38	6 11	7 40	21	W.
6 55	4 37	sets	8 22	22	Th.
6 56	4 36	5 51	9 9	23	F.
6 57	4 36	6 47	9 54	24	S.
6 58	4 35	7 48	10 36	25	S.
6 59	4 35	8 52	11 23	26	M.
7 0	4 35	9 57	morn	27	T.
7 2	4 34	11 5	14	28	W.
7 3	4 34	morn	1 7	29	Th.
7 4	4 34	13	2 1	30	F.

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. Boston. N. Yard
6 33	4 54	4	5 32
6 34	4 53	1 15	6 33
6 36	4 51	2 25	7 36
6 37	4 50	3 40	8 36
6 38	4 49	4 55	9 33
6 39	4 48	6 11	10 28
6 41	4 47	rises	11 18
6 42	4 45	6 19	ev. 9
6 43	4 44	7 18	1 1
6 44	4 43	8 20	1 52
6 46	4 42	9 23	2 42
6 47	4 41	10 25	3 30
6 48	4 40	11 25	4 21
6 49	4 39	morn	5 12
6 51	4 39	25	6 4
6 52	4 38	1 22	6 52
6 53	4 37	2 21	7 42
6 54	4 36	3 18	8 31
6 56	4 35	4 17	9 16
6 57	4 34	5 17	10 1
6 58	4 34	6 15	10 45
6 59	4 33	sets	11 28
7 0	4 32	5 46	morn
7 2	4 32	6 42	10
7 3	4 31	7 43	56
7 4	4 31	8 48	1 42
7 5	4 30	9 55	2 29
7 6	4 30	11 4	3 16
7 7	4 30	morn	4 8
7 8	4 29	13	5 3

DECEMBER, 1900

MOON'S PHASES.	East. Time.	Cent. Time.	West. Time.
Full Moon... 6 D.	5 h. 38 m.	4 h. 38 m.	3 h. 38 m.
Last Quarter... 13 D.	5 h. 42 m.	4 h. 42 m.	3 h. 42 m.
New Moon... 21 D.	7 h. 1 m.	6 h. 1 m.	5 h. 1 m.
First Quarter... 28 D.	8 h. 48 m.	7 h. 48 m.	6 h. 48 m.

New-York City,
Phila., Conn., New Jersey,
Penn., O., Ind., & Ill.

MEAN TIME.			STAN. TIME.	D. OF MO.	D. OF WK.
Sun rises	Sun sets	Moon sets	H. W. N. Y. Gov. Is.		
7 5	4 34	1 23	3 4	1	S.
7 6	4 33	2 33	4 4	2	S.
7 7	4 33	3 45	5 8	3	M.
7 8	4 33	4 57	6 10	4	T.
7 9	4 32	6 7	7 6	5	W.
7 10	4 32	rises	7 57	6	Th.
7 11	4 32	6 5	8 51	7	F.
7 12	4 32	7 8	9 40	8	S.
7 13	4 32	8 13	10 24	9	S.
7 14	4 32	9 12	11 9	10	M.
7 15	4 32	10 14	11 53	11	T.
7 15	4 32	11 12	ev. 38	12	W.
7 16	4 33	morn	1 22	13	Th.
7 16	4 33	9	2 12	14	F.
7 17	4 33	1 6	3 2	15	S.
7 18	4 33	2 3	3 54	16	S.
7 18	4 33	3 2	4 46	17	M.
7 19	4 34	4 0	5 38	18	T.
7 20	4 34	4 58	6 29	19	W.
7 20	4 35	5 56	7 18	20	Th.
7 21	4 35	6 50	8 2	21	F.
7 21	4 36	sets	8 51	22	S.
7 22	4 37	6 42	9 36	23	S.
7 22	4 37	7 50	10 19	24	M.
7 23	4 38	8 48	11 4	25	T.
7 23	4 39	10 5	11 52	26	W.
7 23	4 39	11 14	morn	27	Th.
7 23	4 40	morn	43	28	F.
7 24	4 40	22	1 38	29	S.
7 24	4 41	1 32	2 37	30	S.
7 24	4 42	2 42	3 43	31	M.

Boston, New England,
New-York, Mich., Wis.,
Iowa, and Oregon.

MEAN TIME.			STAN. TIME.
Sun rises	Sun sets	Moon sets	H. W. Boston. N. Yard
7 10	4 29	1 24	6 6
7 11	4 29	2 35	7 7
7 12	4 28	3 48	8 11
7 13	4 28	5 1	9 12
7 14	4 28	6 11	10 9
7 15	4 28	rises	11 2
7 16	4 28	6 1	11 54
7 17	4 28	7 4	ev. 42
7 17	4 28	8 9	1 28
7 18	4 28	9 10	2 14
7 19	4 28	10 12	2 55
7 20	4 28	11 11	3 40
7 21	4 28	morn	4 25
7 22	4 28	9	5 14
7 22	4 29	1 7	6 4
7 23	4 29	2 6	6 57
7 24	4 29	3 5	8 0
7 24	4 29	4 4	8 41
7 25	4 30	5 3	9 31
7 26	4 30	6 1	10 21
7 26	4 31	6 55	11 7
7 26	4 31	sets	11 54
7 27	4 32	6 39	morn
7 27	4 32	7 47	38
7 28	4 33	8 56	1 23
7 28	4 33	10 5	2 9
7 28	4 34	11 15	2 55
7 29	4 35	morn	3 44
7 29	4 36	24	4 39
7 29	4 37	1 35	5 39
7 30	4 37	2 45	6 46

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On Letters, **five cents for each half ounce** or fraction thereof—prepayment optional. Double rates are collected on delivery of unpaid or short-paid letters.

On newspapers, books, pamphlets, photographs, sheet music, maps, engravings, and similar printed matter, **one cent for each two ounces** or fraction thereof. Limit, 4 lbs. 6 ozs.

TO CANADA (including Nova Scotia, New Brunswick, Manitoba, and Prince Edward Island): **LETTERS, two cents for each ounce** or fraction thereof; Books, Circulars, and similar printed matter, **one cent for each two ounces** or fraction thereof; **SECOND CLASS MATTER** same as in the United States; **SAMPLES, one cent per two ounces** (must be paid at least 2 cents); **MERCHANDISE, one cent per ounce**. Packages must not exceed 4 lbs. in weight—prepayment compulsory. No sealed packages other than letters in their usual and ordinary form may be sent by mail to Canada.

TO MEXICO: Letters, Postal Cards, and printed matter, same rates as in the United States. **SAMPLES, one cent per two ounces**; **MERCHANDISE** other than Samples can only be sent by Parcel Post. No sealed packages other than letters in their usual and ordinary form may be sent by mail to Mexico.

LIMITS OF SIZE AND WEIGHT: Packages of samples of merchandise to all countries must not exceed 12 ozs., nor measure more than 12 inches in length, 8 in breadth, and 4 in depth; and packages of printed matter must not exceed 4 lbs. 6 ozs.

INTERNATIONAL OR FOREIGN MONEY-ORDER FEES.
On Money Orders payable in foreign countries the following fees are charged:

For Orders for sums of \$10 or less	10 cents.
Over \$10 and not exceeding \$20	20 cents.
Over 20 and not exceeding 30	30 cents.
Over 30 and not exceeding 40	40 cents.
Over 40 and not exceeding 50	50 cents.
Over 50 and not exceeding 60	60 cents.
Over 60 and not exceeding 70	70 cents.
Over 70 and not exceeding 80	80 cents.
Over 80 and not exceeding 90	90 cents.
Over 90 and not exceeding 100	\$1.00.

Interest Tables.

4%	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
4 DAY.	0	0	0	0	0	0	0	0	0	0	5	45
8 "	0	0	0	0	0	0	0	0	1	1	9	89
12 "	0	0	0	0	0	1	1	1	1	2	14	1.34
16 "	0	0	0	0	1	1	1	2	2	2	18	1.78
20 "	0	0	0	1	1	2	2	2	2	2	22	2.22
24 "	0	0	1	1	2	2	2	2	3	3	27	2.67
28 "	0	0	1	1	2	2	2	3	3	3	31	3.11
1 MO..	0	0	1	2	2	2	3	3	3	4	34	3.34
2 "	0	2	2	3	4	4	5	6	6	7	67	6.67
3 "	1	2	3	4	5	6	7	8	9	10	1.00	10.00
6 "	2	4	6	8	10	12	14	16	18	20	2.00	20.00
1 YR..	4	8	12	16	20	24	28	32	36	40	4.00	40.00

5%	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
4 DAY.	0	0	0	0	0	0	0	0	0	0	6	56
8 "	0	0	0	0	0	0	1	1	1	1	11	1.11
12 "	0	0	0	0	1	1	1	2	2	2	17	1.67
16 "	0	0	0	1	1	2	2	2	2	2	22	2.22
20 "	0	0	1	1	2	2	2	2	3	3	28	2.74
24 "	0	0	1	2	2	2	3	3	3	4	34	3.34
28 "	0	1	1	2	2	3	3	3	4	4	39	3.84
1 MO..	0	1	2	2	2	3	3	4	4	4	42	4.17
2 "	1	2	3	4	4	5	6	7	8	9	84	8.34
3 "	2	3	4	5	6	7	9	10	11	13	1.25	12.50
6 "	3	5	8	10	13	15	18	20	23	25	2.50	25.00
1 YR..	5	10	15	20	25	30	35	40	45	50	5.00	50.00

6%	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
4 DAY.	0	0	0	0	0	0	0	1	1	1	7	.67
8 "	0	0	0	1	1	1	1	1	1	1	13	1.33
12 "	0	0	1	1	1	1	1	2	2	2	20	2.00
16 "	0	1	1	1	1	2	2	2	2	3	27	2.67
20 "	1	1	1	2	2	2	2	3	3	3	33	3.33
24 "	1	1	1	2	2	2	3	3	4	4	40	4.00
1 MO..	1	1	2	2	3	3	4	4	5	5	50	5.00
2 "	1	2	3	4	5	6	7	8	9	10	1.00	10.00
3 "	2	3	5	6	8	9	11	12	14	15	1.50	15.00
6 "	3	6	9	12	15	18	21	24	27	30	3.00	30.00
1 YR..	6	12	18	24	30	36	42	48	54	60	6.00	60.00

Rules for Computing Interest.

The following will be found to be excellent rules for finding the interest on any principal for any number of days. When the principal contains cents, point off four places from the right of the result to express the interest in dollars and cents. When the principal contains dollars only, point off two places.

Four per Cent.—Multiply the principal by the number of days to run, and divide by 90.

Five per Cent.—Multiply by number of days, and divide by 72.

Six per Cent.—Multiply by number of days, and divide by 60.

Seven per Cent.—Multiply by number of days, and divide by 52.

Eight per Cent.—Multiply by number of days, and divide by 45.

Nine per Cent.—Multiply by number of days, and divide by 40.

Ten per Cent.—Multiply by number of days, and divide by 36.

Twelve per Cent.—Multiply by number of days, and divide by 30.

Fifteen per Cent.—Multiply by number of days, and divide by 24.

Eighteen per Cent.—Multiply by number of days, and divide by 20.

Twenty per Cent.—Multiply by number of days, and divide by 18.

Twenty-four per Cent.—Multiply by number of days, and divide by 15.

Rate of Income on Stocks.

Purchased at the following prices (par value being \$100), and bearing interest at the following rates:

Paid.	3%	4%	5%	6%	7%	8%	9%
\$50	6.00	8.00	10.00	12.00	14.00	16.00	18.00
55	5.45	7.27	9.09	10.90	12.72	14.55	16.36
60	5.00	6.67	8.33	10.00	11.66	13.33	15.00
65	4.62	6.15	7.69	9.23	10.70	12.30	13.85
70	4.28	5.71	7.14	8.57	10.00	11.42	12.85
75	4.00	5.33	6.66	8.00	9.33	10.66	12.00
80	3.75	5.00	6.25	7.50	8.75	10.00	11.25
85	3.53	4.70	5.88	7.05	8.23	9.41	10.58
90	3.33	4.44	5.55	6.66	7.77	8.88	10.00
91	3.30	4.40	5.49	6.59	7.69	8.79	9.89
92	3.26	4.34	5.43	6.52	7.60	8.70	9.78
93	3.23	4.30	5.38	6.45	7.53	8.60	9.68
94	3.19	4.26	5.32	6.38	7.45	8.51	9.57
95	3.15	4.21	5.26	6.31	7.36	8.42	9.47
96	3.13	4.17	5.21	6.25	7.29	8.33	9.38
97	3.09	4.12	5.15	6.18	7.22	8.25	9.28
98	3.06	4.08	5.10	6.12	7.14	8.16	9.18
99	3.03	4.04	5.05	6.06	7.07	8.08	9.09
101	2.97	3.96	4.95	5.94	6.93	7.92	8.91
102	2.94	3.92	4.90	5.88	6.86	7.84	8.82
103	2.91	3.88	4.85	5.83	6.80	7.77	8.74
104	2.88	3.85	4.81	5.77	6.73	7.69	8.65
105	2.86	3.80	4.76	5.71	6.66	7.61	8.57
106	2.83	3.77	4.72	5.66	6.60	7.55	8.49
107	2.80	3.74	4.67	5.61	6.54	7.48	8.41
108	2.78	3.70	4.63	5.56	6.48	7.41	8.33
109	2.75	3.67	4.59	5.50	6.42	7.34	8.26
110	2.72	3.63	4.54	5.45	6.36	7.27	8.18
120	2.50	3.33	4.16	5.00	5.83	6.66	7.50

Table of Wages.

TABLE OF WAGES BY THE WEEK.

Wages	One hour.	Five hours.	Eight hours.	Nine hours.	One day.	Two days.	Three days.	Four days.	Five days.	Six days.
\$3	.05	.25	.40	.45	.50	1.00	1.50	2.00	2.50	3.00
4	.06 ² / ₃	.33 ¹ / ₃	.53 ¹ / ₃	.60	.66 ² / ₃	1.33 ¹ / ₃	2.00	2.66 ² / ₃	3.33 ¹ / ₃	4.00
5	.08 ¹ / ₃	.41 ² / ₃	.66 ² / ₃	.75	.83 ¹ / ₃	1.66 ² / ₃	2.50	3.33 ¹ / ₃	4.16 ² / ₃	5.00
6	.10	.50	.80	.90	1.00	2.00	3.00	4.00	5.00	6.00
7	.11 ² / ₃	.58 ¹ / ₃	.93 ¹ / ₃	1.05	1.16 ² / ₃	2.33 ¹ / ₃	3.50	4.66 ² / ₃	5.83 ¹ / ₃	7.00
8	.13 ¹ / ₃	.66 ² / ₃	1.06 ² / ₃	1.20	1.33 ¹ / ₃	2.66 ² / ₃	4.00	5.33 ¹ / ₃	6.66 ² / ₃	8.00
9	.15	.75	1.20	1.35	1.50	3.00	4.50	6.00	7.50	9.00
10	.16 ² / ₃	.83 ¹ / ₃	1.33 ¹ / ₃	1.50	1.66 ² / ₃	3.33 ¹ / ₃	5.00	6.66 ² / ₃	8.33 ¹ / ₃	10.00
11	.18 ¹ / ₃	.91 ² / ₃	1.46 ² / ₃	1.65	1.83 ¹ / ₃	3.66 ² / ₃	5.50	7.33 ¹ / ₃	9.16 ² / ₃	11.00
12	.20	1.00	1.60	1.80	2.00	4.00	6.00	8.00	10.00	12.00
13	.21 ² / ₃	1.08 ¹ / ₃	1.73 ¹ / ₃	1.95	2.16 ² / ₃	4.33 ¹ / ₃	6.50	8.66 ² / ₃	10.83 ¹ / ₃	13.00
14	.23 ¹ / ₃	1.16 ² / ₃	1.86 ² / ₃	2.10	2.33 ¹ / ₃	4.66 ² / ₃	7.00	9.33 ¹ / ₃	11.66 ² / ₃	14.00
15	.25	1.25	2.00	2.25	2.50	5.00	7.50	10.00	12.50	15.00
16	.26 ² / ₃	1.33 ¹ / ₃	2.13 ¹ / ₃	2.40	2.66 ² / ₃	5.33 ¹ / ₃	8.00	10.66 ² / ₃	13.33 ¹ / ₃	16.00
17	.28 ¹ / ₃	1.41 ² / ₃	2.26 ² / ₃	2.55	2.83 ¹ / ₃	5.66 ² / ₃	8.50	11.33 ¹ / ₃	14.16 ² / ₃	17.00
18	.30	1.50	2.40	2.70	3.00	6.00	9.00	12.00	15.00	18.00
19	.31 ² / ₃	1.58 ¹ / ₃	2.53 ¹ / ₃	2.85	3.16 ² / ₃	6.33 ¹ / ₃	9.50	12.66 ² / ₃	15.83 ¹ / ₃	19.00
20	.33 ¹ / ₃	1.66 ² / ₃	2.66 ² / ₃	3.00	3.33 ¹ / ₃	6.66 ² / ₃	10.00	13.33 ¹ / ₃	16.66 ² / ₃	20.00
24	.40	2.00	3.20	3.60	4.00	8.00	12.00	16.00	20.00	24.00

This Table is based upon the usual calculation of 10 hours to a day.

Weights—Measures.

MEASURES OF WEIGHT.—*Avoirdupois*: 1 pound equals 7000 grains; 16 drams, 1 ounce; 16 ounces, 1 pound; 112 pounds, 1 hundredweight; 20 hundredweight, 1 ton. *Troy*: 1 pound equals 5760 grains; 24 grains, 1 pennyweight; 20 pennyweights, 1 ounce; 12 ounces, 1 pound. *Apothecaries*: 1 pound equals 5760 grains; 20 grains, 1 scruple; 3 scruples, 1 dram; 8 drams, 1 ounce; 12 ounces, 1 pound. *Metric*: 1 kilogramme equals 1000 grammes, equals 2.2 Avoirdupois pounds.

MEASURES OF LENGTH.—*Customary*: 12 inches equal 1 foot; 16½ feet, 1 rod; 40 rods, 1 furlong; 8 furlongs, 1 statute mile; 1 statute mile, 5280 feet or 1760 yards; 1 marine league, 3 nautical miles; 1 fathom, 6 feet; 1 nautical mile equals 6080.2 feet. *Metric*: 1000 millimetres equal 1 metre; 1000 metres, 1 kilometre; 1 metre equals 39.37 inches.

SURFACE OR SQUARE MEASURE.—*Customary*: 144 square inches equal 1 square foot; 9 square feet, 1 square yard; 30.25 square yards, 1 square rod; 40 square rods, 1 square rood; 4 square roods, 1 acre; 640 acres, 1 square mile; 1 acre equals 208.7 feet square. *Metric*: 1 square metre equals 10.764 square feet; 100 square metres equal 1 are; 1 hectare equals 100 ares, or 2.471 acres.

SOLID OR CUBIC MEASURE.—*Customary*: 1728 cubic inches equal 1 cubic foot; 27 cubic feet, 1 cubic yard; 40 cubic feet of round timber, 1 ton; 50 cubic feet of hewn timber, 1 ton; 128 cubic feet of wood (4 feet by 4 feet by 8 feet), 1 cord; 24.75 cubic feet of stone, 1 perch—usually 16½ feet by 1½ feet by 1 foot, but varies greatly. *Metric*: 1000 cubic centimetres equal 1 litre; 1 litre equals 1.0567 quarts.

LIQUID MEASURE.—English gallon equals 277.274 cubic inches, or 1.20032 U. S. gallons; 4 gills, 1 pint; 2 pints, 1 quart; 4 quarts, 1 gallon.

DRY MEASURE.—1 bushel equals 2150.42 cubic inches; 2 pints, 1 quart; 4 quarts, 1 gallon; 2 gallons, 1 peck; 4 pecks, 1 bushel. *Metric*: 10 millilitres equal 1 centilitre; 10 centilitres, 1 decilitre; 10 decilitres, 1 litre; 1 litre, 0.908 dry quart.

CAPACITY OF BOXES.

25 in. sq., 11.66 in. deep	=	Approx. 1 wine barrel.
20 " " 9.10 " "	=	1 wine half barrel.
17 "x 14 in. 9.00 " "	=	1 bushel.
10 "x 12 " 9.00 " "	=	½ "
8 " sq., 8.40 " "	=	1 peck.
8 " " 4.20 " "	=	1 gal. (dry measure).
7 " diam., 6.00 " "	=	1 gal. (liquid measure).

The Metric System.

The Metric System of Weights and Measures has been legalized by act of Congress, July 18, 1896.

METRIC WEIGHTS.—10 milligrams make 1 centigram, 10 centigrams 1 decigram, 10 decigrams 1 gram, 10 grams 1 dekagram, 10 dekagrams 1 hektogram, 10 hektograms 1 kilogram, 1,000 kilograms 1 metric ton.

METRIC MEASURES.—(One milliliter equals cubic centimeter.) 10 milliliters make 1 centiliter, 10 centiliters 1 deciliter, 10 deciliters 1 liter, 10 liters 1 dekaliter, 10 dekaliters 1 hektoliter, 10 hektoliters 1 kiloliter.

METRIC LENGTHS.—10 millimeters make 1 centimeter, 10 centimeters 1 decimeter, 10 decimeters 1 meter, 10 meters 1 dekameter, 10 dekameters 1 hektometer, 10 hektometers 1 kilometer.

APPROXIMATE EQUIVALENTS.

A meter is about a yard; a kilo is about 2 pounds; a liter is about a quart; a centimeter is about ½ inch; a metric ton is about same as an ordinary ton; a kilometer is about ⅙ mile; a cubic centimeter is about a thimbleful. A nickel five-cent piece of our coinage is a handy key to metric measures and weights. It is two centimeters in diameter and weighs five grams.

PRECISE EQUIVALENTS.

1 acre equals .4047 hectar; 1 bushel, 35.24 liters; 1 centimeter .3937 inch; 1 cubic centimeter, .0610 cubic inch; 1 cubic foot, .0283 cubic meter; 1 cubic inch, 16.39 cubic cent.; 1 cubic meter, 35.31 cubic feet; 1 cubic meter, 1.308 cubic yards; 1 cubic yard, .7645 cubic meter; 1 foot, 30.48 centimeters; 1 gallon, 3.785 liters; 1 grain, .0648 gram; 1 gram, 15.43 grains; 1 hectar, 2.471 acres; 1 inch, 25.40 millimeters; 1 kilogram, 2.05 pounds; 1 kilometer, .6214 mile; 1 liter, .9081 quart (dry); 1 liter, 1.057 quart (liquid); 1 meter, 3.281 feet; 1 mile, 1.609 kilometers; 1 millimeter, .0394 inch; 1 ounce (avd.), 28.35 grams; 1 ounce (Troy), 31.10 grams; 1 peck, 8.809 liters; 1 pint, .4732 liter; 1 pound, .4536 kilogram; 1 quart (dry), 1.101 liters; 1 quart (liquid), .9464 liter; 1 sq. centimeter, .1550 sq. inch; 1 sq. foot, .0929 sq. meter; 1 sq. inch, 6.452 sq. cent.; 1 sq. meter, 1.196 sq. yards; 1 sq. meter, 10.76 sq. feet; 1 sq. yard, .8361 sq. meter; 1 ton (2,000 lbs.), .9072 metric ton; 1 ton (2,240 lbs.), 1.017 metric ton; 1 ton (metric), 1.102 ton (2000 lbs.); 1 ton (metric), 9.842 ton (2,240 lbs.); 1 yard, .9144 meter.

PRESIDENTS OF THE UNITED STATES.

Names.	Born.	Inaugurated.	In Office.	Died.	Native of
George Washington.	Feb. 22, 1732	April 30, 1789	8 years.	Dec. 14, 1799	Virginia.
John Adams.....	Oct. 30, 1735	Mar. 4, 1797	"	July 4, 1826	Mass.
Thomas Jefferson ...	April 2, 1743	" 4, 1801	"	July 4, 1826	Virginia.
James Madison.....	Mar. 16, 1751	" 4, 1809	"	June 28, 1836	"
James Monroe.....	April 2, 1759	" 4, 1817	"	July 4, 1831	"
John Quincy Adams.	July 11, 1767	" 4, 1825	"	Feb. 23, 1848	Mass.
Andrew Jackson	Mar. 15, 1767	" 4, 1829	"	June 8, 1845	S. Carol.
Martin Van Buren....	Dec. 5, 1782	" 4, 1837	"	Dec. 27, 1862	New-York.
William H. Harrison.	Feb. 9, 1773	" 4, 1841	1 month.	April 4, 1841	Virginia.
John Tyler.....	Mar. 20, 1790	April 5, 1841	3 yrs. 11 m.	Jan. 17, 1862	"
James K. Polk.....	Nov. 2, 1795	Mar. 4, 1845	4 years.	June 15, 1849	N. Carol.
Zachary Taylor	Nov. 24, 1790	" 4, 1849	1 yr. 4 m.	July 9, 1850	Virginia.
Millard Fillmore	May 7, 1800	July 10, 1850	2 yrs. 8 m.	Mar. 8, 1874	New-York.
Franklin Pierce.....	Nov. 23, 1804	Mar. 4, 1853	4 years.	Oct. 8, 1869	N. Hamp.
James Buchanan	April 23, 1791	" 4, 1857	"	June 1, 1868	Pennsylva.
Abraham Lincoln ...	Feb. 12, 1809	" 4, 1861	4 yrs. 40 d.	April 15, 1865	Kentucky.
Andrew Johnson.....	Dec. 29, 1808	April 15, 1865	3 yrs. 11 m.	July 31, 1875	N. Carol.
Ulysses S. Grant	April 27, 1822	Mar. 4, 1869	8 years.	July 23, 1885	Ohio.
Rutherford B. Hayes	Oct. 4, 1822	" 5, 1877	"	Jan. 17, 1893	"
James A. Garfield....	Nov. 19, 1831	" 4, 1881	6 m. 15 d.	Sept. 19, 1881	"
Chester A. Arthur....	Oct. 5, 1830	Sept. 19, 1881	3 yrs. 5 m.	Nov. 18, 1886	Vermont.
Grover Cleveland....	Mar. 18, 1837	Mar. 4, 1885	4 years.	"	N. Jersey.
Benjamin Harrison...	Aug. 20, 1833	" 4, 1889	"	"	Ohio.
Grover Cleveland ...	Mar. 18, 1837	" 4, 1893	"	"	N. Jersey.
William McKinley ..	Jan. 29, 1843	4, 1897	"	"	Ohio.

Presidents.

Revenue Stamps.

Bank Checks	\$0.02	Agreement of Sale of Merchandise	\$0.01
Bankers—for first \$25,000 of capital.....	50.00	Telephone Messages, 15c. or more.....	.01
For each \$1,000 in excess of \$25,000	2.00	Bond, indemnifying ....	.50
Brokers	50.00	Surety Bond.....	.50
Pawnbrokers.....	20.00	Telegram .....	.01
Commercial Brokers....	20.00	Custom House—Entry value \$100, 25c.; \$500	.50
Custom House Brokers..	10.00	Over \$500.....	1.00
Theatres, Museums and Concert Halls in cities, popu'n 25,000	100.00	Entry for withdrawal.	.50
Circus.....	100.00	Stocks on sales or transfers, per \$100 .....	.02
Public Exhibitions.....	10.00	Money Orders—Foreign Telegraph—per \$100.....	.04
Bowling Alleys, ea. alley	5.00	Foreign Letters of Credit—per \$100 .....	.04
Billiard Rooms, ea. table	5.00	Drafts payable on sight.	.02
Bill of Exchange (foreign) for each \$100 or fraction (not in sets)..	.04	Drafts payable on time, per \$100 or fraction...	.02
In sets, for each bill of set, for each \$100..	.02	Protest of Notes .....	.25
Bill of Exchange (inland) for ea. \$100 or fraction	.02	Lease—One year.....	.25
Promissory Note.....	.02	Three years.....	.50
Draft.....	.02	Over three years.....	1.00
Certificate of Deposit, drawing int., per \$100	.02	Power of Attorney..	.25
Not drawing interest	.02	Proxy for Voting .....	.10
Government Money Or's	.02	Warehouse Receipt....	.25
Bonds—issued by companies, per \$100 .....	.05	Parlor Car Seat .....	.01
Foreign, per \$100.....	.05	Sleeping Car Berth....	.01
Deed of real estate for each \$500, or less, above \$100, or fraction of \$500 .....	.50	Tobacco—per pound.	.12
Mortgage on real or personal estate, first \$1,000 exempt.		Tea—per pound .....	.10
First, \$1,500 or less, above \$1,000 .....	.25		
For each \$500 or fraction in excess of \$1,500.....	.25		
Assignment of Mortgage—same taxes as on mortgage.			
Assignment of Lease—same taxes as on lease.			
Mixed Flour—upon the person or company engaged in business, per annum	12.00		
On each barrel, 4c.; ½ bbl., 2c.; ¼ bbl., 1c.; ⅛ bbl. .	.0½		
Cigars—not more than 3 lbs. per 1,000, per thousand....	1.00		
Weighing more than 3 lbs. per 1,000, per thousand....	3.60		
Cigarettes—more than 3 lbs. per 1,000, per thousand....	3.60		
Weighing less than 3 lbs. per 1,000, per thousand.....	1.50		

Principal Cities.

POPULATION, DISTANCE FROM NEW-YORK, AND DIFFERENCE BETWEEN MEAN AND STANDARD TIME.

CITIES.	Population 1890.	Miles	Hours	Stan. Time — } Mean + } Time.
New-York, N. Y.....	2,321,644	....	....	— 4 m.
Chicago, Ill.....	1,099,850	912	24.	— 9
Philadelphia, Pa.....	1,046,964	90	2.	+ 1
St. Louis, Mo.....	451,770	1065	29.40	+ 1
Boston, Mass.....	448,477	234	5.	— 16
Baltimore, Md.....	434,439	188	4.09	+ 6
San Francisco, Cal....	298,997	3269	100.15	+ 10
Cincinnati, Ohio.....	296,908	757	21.10	— 22
Cleveland, Ohio.....	261,353	595	14.20	+ 27
Buffalo, N. Y.....	255,664	410	8.20	+ 16
New Orleans, La.....	242,039	1371	48.	0
Pittsburgh, Pa.....	238,617	444	12.	+ 20
Washington, D. C....	230,392	228	5.25	+ 8
Detroit, Mich.....	205,876	646	16.55	— 28
Milwaukee, Wis.....	204,468	997	27.10	— 8
Newark, N. J.....	181,830	10	.30	— 3
Minneapolis, Minn....	164,738	1332	39.	+ 12
Louisville, Ky.....	161,129	867	24.30	— 18
Omaha, Neb.....	140,452	1402	41.30	+ 14
Rochester, N. Y.....	133,896	371	6.55	+ 11
St. Paul, Minn.....	133,156	1322	38.40	+ 12
Kansas City, Mo.....	132,716	1385	41.30	+ 19
Providence, R. I.....	132,146	188	4.01	— 14
Denver, Col.....	106,713	1974	60.	0
Indianapolis, Ind.....	105,436	825	22.30	— 16
Albany, N. Y.....	94,923	143	2.45	— 5
Columbus, Ohio.....	88,150	540	17.	— 28
Syracuse, N. Y.....	88,143	291	5.28	+ 5
Worcester, Mass.....	84,655	190	5.	— 13
Toledo, Ohio.....	81,434	706	17.30	— 16
Los Angeles, Cal.....	65,000	3177	100.	— 7
Grand Rapids, Mich..	60,278	934	23.08	— 17
Seattle, Wash.....	57,542	3358	120.	+ 10
Lincoln, Neb.....	55,154	1460	30.30	+ 22
Des Moines, Iowa....	50,093	1270	41.	+ 14
Portland, Or.....	46,385	3226	112.30	+ 20
Salt Lake City, Utah..	44,843	2471	72.	+ 28
Tacoma, Wash.....	45,000	3209	128.	+ 9
Savannah, Ga.....	43,189	904	31.	+ 24

Foreign Coins.

DENOMINATION.	COUNTRY.	Equivalent U. S. Money.
Alfonso.....	Spain.....	\$4.80.
Boliviano.....	Bolivia.....	.69.8
Crown.....	Nor'y, Swed'n, Den'k.	.26.8
Dollar.....	British America.....	1.00.
".....	Mexico.....	.75 8
".....	Spain.....	.94.
Drachma.....	Greece.....	.19.3
Florin.....	Austria.....	.34.5
".....	Netherlands.....	.40.2
Franc.....	France, Belg., Switz..	.19.3
20 Kroner.....	Nor'y, Swed'n, Den'k.	5.25.
Lira.....	Italy.....	.19.3
Mark.....	German Empire.....	.23.8
Milreis of 1000 reis.....	Brazil.....	.54.6
".....	Portugal.....	1.08.
Peseta of 100 centimes.....	Spain.....	.19.3
Peso.....	Chili.....	.91.2
".....	Cuba.....	.92.6
Plaster.....	Egypt.....	.04.9
".....	Turkey.....	.04.4
Pound Sterling (Sovereign)	England.....	4.87.
Rouble of 100 copecks.....	Russia.....	.55.8
Shilling.....	England.....	.24.
Sol.....	Peru.....	.69.8
Thaler (3 marks).....	Germany.....	.70.
Yen.....	Japan.....	.88.8

Explanation of the Currencies of the various Countries.

AUSTRIA AND RUSSIA.—The Paper Currencies are continually subject to important fluctuations.

In FRANCE, BELGIUM, SWITZERLAND, AND ITALY, 1 franc=100 centimes. GERMANY, 1 mark=100 pfennig. HOLLAND, 1 florin or gulden=100 cents. NORWAY, SWEDEN, AND DENMARK, 1 kroner=100 öre. UNITED STATES, 1 dollar=100 cents. SPAIN, 1 peseta=100 centavos. AUSTRIA, 1 florin=100 kreuzer. PORTUGAL, 1 milreis=1000 reis. GREECE, 1 drachma=100 leptas. TURKEY, 1 plaster=40 paras. RUSSIA, 1 rouble=100 copecks.

Italian notes and silver are not current in France, Belgium, and Switzerland, but the silver of these countries passes current in Italy.

Help in Case of Accidents.

DROWNING.—1. Loosen clothing, if any. 2. Empty lungs of water by laying body on its stomach, and lifting it by the middle so that the head hangs down. Jerk the body a few times. 3. Pull tongue forward, using handkerchief, or pin with string, if necessary. 4. Imitate motion of respiration by alternately compressing and expanding the lower ribs, about twenty times a minute. Alternately raising and lowering the arms from the sides up above the head will stimulate the action of the lungs. Let it be done gently but persistently. 5. Apply warmth and friction to extremities. 6. By holding tongue forward, closing the nostrils, and pressing the "Adam's apple" back (so as to close entrance to stomach), direct inflation may be tried. Take a deep breath and breathe it forcibly into the mouth of patient, compress the chest to expel the air, and repeat the operation. 7. **DON'T GIVE UP!** People have been saved after **HOURS** of patient, vigorous effort. 8. When breathing begins, get patient into a warm bed, give **WARM** drinks, or spirits in teaspoonfuls, fresh air, and quiet.

SUNSTROKE.—There are two important indications for treatment—reduction of temperature and the use of stimulants. The patient should first be removed to a cooler spot if possible, or at least where shade can be secured. The treatment should be begun at once. The clothing about the neck and body must be either loosened or removed. Cold is particularly indicated in cases where there is great heat of the body, and delirium and convulsive movements are present. This means of reducing the temperature may be applied in the shape of cracked ice about the head and spine, or the use of cold water. If the heat of the body is very great, it may be necessary to wrap the patient in sheets wet with cold water. If there is, besides the great heat, evidence of serious depression, stimulants must be used while the cold is being applied.

HÆMORRHAGE.—The usual treatment is rest in the recumbent position; small pieces of ice should be freely swallowed, and the application of ice wrapped in a towel or in an ice-bag, or snow, cold water, etc., over the stomach; hot applications may be applied to the extremities.

FIRE IN A BUILDING.—Crawl on the floor. The clearest air is the lowest in the room. Cover head with woolen wrap, wet if possible. Cut holes for the eyes. *Don't get excited.*

Help in Case of Accidents.

BURNS AND SCALDS.—Cover with cooking soda and lay wet cloths over it. Whites of eggs and olive oil. Olive oil or linseed oil, plain, or mixed with chalk or whiting. Sweet or olive oil and lime-water. Shock, which is always present in severe burns, requires the administration of stimulants. Pain is more constant and intense in burns than in any other form of injury, and requires sedatives, which should be administered by the medical attendant. Later on the appearances of inflammation and other complications are to be carefully watched for.

SUFFOCATION FROM INHALING ILLUMINATING GAS.—Get into the fresh air as soon as possible and lie down. Keep warm. Take ammonia—twenty drops to a tumbler of water, at frequent intervals; also, two to four drops tincture of nux vomica every hour or two for five or six hours.

TESTS OF DEATH.—Hold mirror to mouth. If living, moisture will gather. Push pin into flesh. If dead, the hole will remain; if alive, it will close up. Place fingers in front of a strong light. If alive, they will appear red; if dead, black or dark.

MAD DOG OR SNAKE-BITE.—Tie cord tight above wound. Suck the wound and cauterize with caustic or white-hot iron at once, or cut out adjoining parts with a sharp knife. Give stimulants, as whisky, brandy, etc.

FIRE IN ONE'S CLOTHING.—*Don't run*—especially not downstairs or out-of-doors. Roll on carpet, or wrap in woolen rug or blanket. Keep the head down, so as not to inhale flame.

FIRE FROM KEROSENE.—*Don't use water*, it will spread the flames. Dirt, sand, or flour is the best extinguisher, or smother with woolen rug, table-cloth, or carpet.

CINDERS IN THE EYE.—Roll soft paper up like a lamp lighter, and wet the tip to remove, or use a medicine dropper to draw it out. Rub the *other* eye.

FAINTING.—Place flat on back; allow fresh air, and sprinkle with water. Place head lower than rest of body.

STINGS OF VENOMOUS INSECTS, ETC.—Apply weak ammonia, oil, salt water, or iodine.

LIGHTNING.—Dash cold water over a person struck.

Poisons and Antidotes.

FIRST.—Send for a physician.

SECOND.—**INDUCE VOMITING**, by tickling throat with feather or finger. Drink hot water or strong mustard and water. Swallow sweet oil or whites of eggs.

Acids are antidotes for alkalies, and vice versa.

ACIDS, MINERAL.—Chalk, magnesia (plaster off wall in emergency), solution carbonate of soda, emollient drinks, fixed oils.

ACID, CARBOLIC.—Any soluble sulphate, such as magnesia.

ACID, HYDROCYANIC.—Fresh air and artificial respiration, with cold effusion. Ammonia by inhalation and intravenously in vein of leg.

ACONITE.—Emetics, stimulants, external and internal; keep up external heat, keep flat on back.

ANTIMONY TART.—Vegetable acids, such as tannic acid, catechu.

ARSENIC.—Freshly precipitated hydrated sesquioxide of iron made by adding magnesia to any iron solution.

ATROPIA.—Same as Belladonna.

BELLADONNA.—Emetics—mustard flour in water; give physostigma or pilocarpine; cold to head.

CANTHARIDES.—Emetics, emollient drinks, opiates by mouth and rectum, large draughts of water to flush kidneys.

CHLORINE WATER.—Albumen, white of egg, milk, flour.

CHLOROFORM.—Fresh air, artificial respiration (inclining head down, pull tongue forward), brandy and ammonia intravenously in leg, the **HYPODERMIC** injection of 15 m. tincture of digitalis and 1-60 of a grain of atropine.

COLCHICUM.—Emetics, followed by demulcent drinks. If coma be present brandy, ammonia, coffee. Opium in large dose. Keep up external heat.

CONIUM.—Emetics, followed by stimulants external and internal.

CORROSIVE SUBLIMATE.—Albumen, white of egg (4 gr. sublimate require white of one egg), flour, milk. Equal parts of lime water and milk. Emetics, or evacuate stomach by pump.

Poisons and Antidotes.

COPPER SULPH.—Yellow prussiate of potash or soap.

CROTON OIL.—Emetics; wash out stomach, followed by mucilaginous fluids, containing opium.

DIGITALIS.—Recumbent posture after emetics. Emetics and opium; give tincture aconite.

ELATERIUM.—Demulcent drinks, enemata of opium, and external heat.

HYOSCYAMUS.—Stomach pump, emetics, stimulants external and internal, physostigma and pilocarpine.

ILLUMINATING GAS.—Hypodermic injections of nitroglycerin are recommended by Kroman, of Baltimore.

IODINE.—Emetics and demulcent drinks, starch or flour diffused in water, opium and external heat.

LEAD SALTS.—Any soluble sulphate, either magnesia or soda, succeeded by emetics, and afterwards by opium and milk.

LOBELLA.—Stimulants externally and internally; external heat.

MORPHINE.—Same as opium.

NUX VOMICA.—30 grs. of chloral and 60 grs. of bromide of potash. Nitrite of amyl.

OPIUM.—Atropine hypodermically till respirations number 8 per minute. Stomach pump, stimulants, external and internal, brandy and coffee, cold affusion, ammonia to nostrils, galvanic shocks, compelling to move about, artificial respiration, electric brush. Permanganate of Potash.

OXALIC ACID.—Lime, not potash or soda.

PHOSPHORUS.—Sulphate of copper in emetic dose as chemical antidote. No oils. Emetics and purgatives.

POTASH AND SODA SALTS.—Dilute acetic acid, citric acid, lemon juice, fixed oils, demulcents, vinegar.

SILVER NITRATE.—Solution of common salt and demulcent drinks. Emetics.

STRAMONIUM.—Same as Belladonna.

STRYCHNINE.—Same as Nux Vomica.

TOBACCO.—Emetic, stimulants, external and internal, strychnine, external heat.

ZINC SALTS.—Carbonate of soda, emetics, warm demulcent drinks.

Things Easily forgotten.

The No. of my Bicycle.....

Weight.....

Height.....

Size of my Hat.....

" Gloves.....

" Hosiery.....

" Collar.....

" Cuffs.....

" Shoes.....

Name.....

Address.....

Cambridge.

Wea.

MON. JAN. 1, 1900

Ther.

17° 8 a.m.

First snow storm of the winter 20° 1 P. M.
beginning about daybreak & lasting until
4 P. M. ten inches of fine, dry snow falling

Spent the whole day in Museum working
on some notes made last summer
at Peterboro recasting & rewriting them.
Purdie went to Boston in A. M.
No calls to-day. A single Chickadee
which visited the nest in the elm was
the only bird noted

Wea.

TUESDAY 2

Ther.

14° 8 a.m.

Cloudless with little wind, a
fine winter day.

26° 1 P. M.

Dryobates pubescens. Feeding nest in elm 8 a.m.

Spent the day in Museum working
on the notes made at Peterboro last summer.
While Purdie & I were at lunch we saw
four Gray Squirrels in a maple outside.
Two of them struggled long & stubbornly
for a large piece of bread.
No calls to-day.

Cambridge.

Wea.

WED. JAN. 3, 1900

Ther.

14° 8 a.m.

Clear and calm

No birds in the garden to-day.

Clangula americana 12 diving off Howard Bridge
Hears in. Smith early on " " "

Spent a.m. working in Museum.
To Boston in P.M. Had some teeth filled
at Dr. Rand's, bought a set of *Taxidermist's* tools
at Codman's, called at Frazar's, bought
8 *Pegions* on Court St. & got back at 6.30 P.M.
Spent evening with Percin working alone.

Wea.

THURSDAY 4

Ther.

5° - 8 a.m.
20° 1 P.M.

Clear & still.

Chickadee heard in garden

Spent the day in Museum working
on the journal notes for last summer.
Received a young of Sabine's & a young Iceland
Gull from Lord. Both birds were taken
near Portland, Me. Lord also sent for
identification a hybrid between the Mallard
& Black Duck. The case has been sold &
is in the Museum. It has more green on the
head than any hybrid & the cheeks are more
buffy & nearly uniform.
C. returned from New York this P.M.
Percin has had some

Cambridge.

Wea.

FRI. JAN. 5, 1900

Ther.

30° - 8 a.m.

Cloudy with light S. wind & 40° - 8 P.M.
rising temperature. Snow thawing rapidly in P.M.

Dryobates pubescens heard in garden.

To Boston at 9 a.m. met J. L. Brewster &
Arthur Estabrook at our office & talked about
the Kingbird affair. Dr. Markland dropped in
by chance & joined the discussion. It was
practically decided to remove Kingbird. Finally
we ate over. Estabrook opposed this plan.
Dined at Porter's & came home at 4 P.M.
Bought some plants at Carbone's.

Wea.

SATURDAY 6

Ther.

40° - 8 a.m.

Morning overcast, the clouds breaking 40° 1 P.M.
away before noon. Sking all day. 36° - 5 a.m.

Cyanocitta cristata. One heard in garden by W. Deane.
Dryobates pubescens 2 at tree in lawn 8 a.m.

Colaptes auratus One in garden

Clangula americana 12 off Howard Bridge.

Spent a.m. in Museum - writing. To
Boston in P.M. to have more teeth filled.
C. went to Concord to lunch at the Heyes's
Elbert to visit the farm. Five English
Sparrows have been living there for a week
or more.

Cambridge.

Wea. SUN. JAN. 7, 1900 Ther.
Clear and mild. 24° 8 a.m.
40° 1 P.M.
38° 6 ..

Spent day in Museum writing letters & working on last summer's notes. Packed with me through the morning. In P.M. we walked to Mt. Auburn & Fresh Pond seeing one or two Brown creepers & having a birdcatch. There were no birds in the garden to-day. My knee which was bruised by a fall last Sunday is troubling me a good deal.

Wea. MONDAY 8 Ther.
Clear with rising N.W. wind & 40° 8 a.m.
38° 1 P.M.
22° 6 ..
Gradually falling temperature. Streets bare & muddy but most of the ground elsewhere still covered with sudden snow.

Colaptes auratus - One in garden.

Spent day in Museum working on last season's notes.

Cambridge.

Wea. TUES. JAN. 9, 1900 Ther.
Brilliantly clear, calm, dry cold. 10° 8 a.m.
26° 1 P.M.

No birds in garden.
Clangula americana about 50 below the bridges.
To Boston at 10 a.m. visiting office and dining at River House.
Bought 21 Pigeons at the Bird Store in Court Street. Among them were a pair each of red & cream tumblers, of black tumblers, of black, white & blue fan-tails, of pointers & two or three cross-bred birds. F.C. Browne died at 5.30 P.M.

Wea. WEDNESDAY 10 Ther.
38° 8 a.m.

Cloudy A.M., clear P.M. with falling therm. 22° 6 P.M.
Parus stricapillus (5) in garden.
Certhia americana - One in garden
Regulus satrapa. Heard distinctly.
Spizella monticola - One in garden.
Amphispiza cedrorum (65+) Mt. Ash, Dodge's Sports & D.

To Boston at 11.30. A lunch filled at Dr. Rand's, lunch at Athletic Club, lunch & meeting at office (2.3 P.M.) meeting Audubon Directors at Mrs. Cabot's (2.30 - 5.30) afternoon tea at Mary Cunningham's (5.30 - 6 P.M.)
Drove out in coupe with C.

Cambridge

Wea.

THUR. JAN. 11, 1900

Ther.

14° - 8 a.m.

Cloudless morning, threatening afternoon 25°. P.M. with 2 inches of sticky snow followed by heavy rain at night.

Sarus atricapillus 1 met at Museum.

Dryobates pubescens 1 " in elms

Spent day in Museum, writing on bird notes in A.M. mulling down washing boxes for the Pigeons in P.M. To Tremont Theater this evening with C., E., R. S. & the W. Deans to see Mrs. Fisher as "Becky Sharp". She good, the support poor.

Wea.

FRIDAY 12

Ther.

38° 8 a.m.

36° 8 p.m.

Cloudy with fine rain in A.M.

Sarus atricapillus 1. *Ceryle alcyon* 1 } In our garden
Ceryle alcyon 1 on crab apple }
Amphisp. cedrorum 1 a scout, apparently, out flying for berries

Day spent in Museum writing on the notes in A.M., at letters in P.M. No callers.

Received from Manly Hardy for examination a specimen of *Acrida scalaris* labeled "Papilionia scalaris" ⁹⁸ Inlet, New Zealand. It agrees very closely with my type but has the white edging of the dorsal feathers less marked & the lower feathers with less dusky mottling.

Cambridge

Wea.

SAT. JAN. 13, 1900

Ther.

26° - 7.30 a.m.

Cloudy, "spitting" snow - a raw disagreeable day.

Dryobates pubescens - one in garden.

Colaptes auratus - one eating fruit of *P. affinis* in garden.

Megascops asio - one waiting in Parker place, Cambridge.

Spent A.M. working on the bird notes;

Called on Faxon at M.C.Z. in P.M. & discussed Dwight's plan for an Index of Auk & Bull. N.O.C. Mr. & Mrs. Emerson & Florence dined with us at 6.30.

The Kimball mother settled at last. He leaves the school & Wolfboro on or before Jan. 29th & Chas. will take his place.

Wea.

SUNDAY 14

Ther.

22° - 8 a.m.

A.M. Brilliantly clear, calm. Cloudy in late P.M. snowing from 6-8 P.M. about 2 inches falling.

Colaptes auratus - one calling ki-ee in garden.

Spent A.M. in Museum writing. In P.M. drove with C. through the new park on the Brighton marshes & back by way of E. Waterbury. No birds seen. Began Ford's fine novel "Peter Sterling" in evening E. R. S. reading it aloud.

Cambridge.

Wea.

MON. JAN. 15, 1900

Ther.

32° - 8 a.m.

38° - 1 P.M.

Clear & calm. The trees in early morning powdered with snow which clung to every thing.

Corvus americanus, one in bird den.

Dryobates pubescens, " " elm.

Driving with C. in sleigh 9 10 a.m.

Spent day working on last summer's journal sheets & bird notes. No callers.

Gray Squirrels eating sweet greedily this winter though they did not touch it last.

Pigeons laying freely for the past two weeks.

Word came to us this morning that A. Cousin Mrs. F. H. Manning died yesterday in Phila on Saturday. I drove in house & saw & saw this evening.

Wea.

TUESDAY 16

Ther.

38° - 8 a.m.

44° - 3 P.M.

Fine, drizzling rain in A.M.

P.M. clear, calm & warm

Parus atricapillus - 2 in garden. W.D.

The day was broken up for me by Mrs. F. H. Manning's funeral at St. Stephen's church at 12. C. & I drove in at 10.30. I was one of four ushers. There were few people. I knew besides the Mannings, Greenoughs, Lucas & Mary Hazard. Given by Mr. Hall. Drivel at River House. Bought a pair of buff necked Pigeons & a pair of turkeys.

Cambridge.

Wea.

WED. JAN. 17, 1900

Ther.

31° - 8 a.m.

27° - 1 P.M.

26° - 6 P.M.

Clear with moderate W. wind & slowly falling temperature.

Dryobates pubescens - 8 in garden at museum sent.

Spent A.M. working on the notes.

R. H. Howe Jr. & George Shattuck called in P.M. bringing them skins of Black Ducks that I wanted to see & a Horned Lark shot at Ipswich (by Howe, last October which Foxon has thought urgent to examine. He looked to me like a *polus praticola*.

Wea.

THURSDAY 18

Ther.

23° - 8 a.m.

30° - 1 P.M.

Cloudy, calm, chilly

Sitta carolinensis - one in garden (a ♀ I thought).

Parus atricapillus (4) in garden

Dryobates pubescens 8 at Museum sent.

Corvus americanus heard cawing in lindus at 7 a.m.

Certhia f. americana - One in garden.

Regulus satrapa - " " "

Amphisp. cedrorum " " "

Spent day in Museum writing on the notes. No callers. Our dining club met at Thorpe's this evening all present except Jeffries & Chubb.

Cambridge.

Wea. FRI. JAN. 19, 1900 Ther.
45° 8 a.m.
55° 1 P.m.
Cloudy, calm, very mild.

Certhia f. americana 1 in garden

Parus atricapillus 1 " "

Ampelis cedrorum (36) Spent whole day in garden

Dryobates pubescens ♂ seen at museum " "

Corvus americanus 3 flying over " "

Spent more of day writing. To Harvard Sq.
in P.M. buying some plants. Skinned two
Green Scaups received in Dec. from the
University.

Wea. SATURDAY 20 Ther.
42° 8 a.m.

Cloudy & calm with dense fog 45° 1 P.m.
& heavy, fine rain. Very dark & gloomy day.
Snow nearly all gone & lawns as well as
Hills bare once more.

No birds in garden. A ♂ Downy Woodpecker
on Redwood Street.

Made up the Dull House & under letters
in A. H. Received a good letter from
H. W. Herderson written at Hilo, Dec 31/19.
Miss Marion Hayes came from Concord to see
to the Dramatic Club with us this evening.
The play "Dandy Dick" was one of the best
things we have had for years.

Cambridge.

Wea. SUN. JAN. 21, 1900 Ther.
27° 8 a.m.
28° 1 P.m.
8° 6 P.m.
Clear with high N.W. wind.

Scoia leucophaea 6 flying over Craig St. near the Park

Visited the greenhouse at Botanic Gardens with
Miss Hayes in forenoon, walking both ways. The Will
Stones, Purdie & Walter Dean dined with us &
we all went to Walker's in P.M. to see his
herbarium. Miss H. returned to Concord by the
evening train.

Saw seven Gray Squirrels all over in our garden.
Have never seen more than three since before.

Wea. MONDAY 22 Ther.
28° 8 a.m.

Clear & calm. Snow & ice practically all gone. 48° 1 P.m.

Dryobates pubescens (♂ & ♀) crab apple tree in garden
Corvus americanus (2) flying over garden

Spent day in Museum working on notes.
No callers. A young Glaucous Gull received
in flesh from Lord of Portland.
Gilbert has been absent since Monday
when his baby fell ill of diphtheria.

Cambridge.

Wea. TUES. JAN. 23, 1900 Ther.
40-80 a.m.
Alternating clouds & sunshine with
52° 1 P.M.
light N. wind 44° 8 P.M.

Myiophobus cedrorum. 12) eating *V. pubescens* in garden
Dryobates pubescens ♂ " seen in crabapple "

Spent the forenoon in Museum working on
the bird notes & journal. To Boston in P.M.
with C., E. R. S., & Mrs. Walter Dean to see
the "Diamond Robbery" at the Castle St. Theatre.
It was well acted but sensational.
Almy called in the evening.

Wea. WEDNESDAY 24 Ther.
14° 86 a.m.
Early morning clear & bracing. Rest
24° 1 P.M.
of day cloudy & chilly with flurries
23° 6 P.M.
of snow.

Arctia f. americana.. heard in garden
Dryobates pubescens.. ♀ seen " "

Spent day in Museum. Finished the
1899 journal & began posting the field
list. No calls.

Cambridge.

Wea. THUR. JAN. 25, 1900 Ther.
24° 8 a.m.
Cloudy with fine. drizzling rain
29° 1 P.M.
freezing as it struck - a gloom day.
Two very heavy showers in P.M.

Parus atricapillus.. ② in garden
Dryobates pubescens ♂ visited nest at Mrs. Thier.
Corvus americanus ② flying over.

Spent day in Museum posting last
season's notes into my field book.
No calls.

Wea. FRIDAY 26 Ther.
33° 8 a.m.
Clear with violent N.W. wind &
26° 1 P.M.
falling temperature. 14.6 ""

Dryobates pubescens ♂ visited Mrs. Thier

Spent day in Museum. Finished posting
last season's notes. Arthur Bangs
called to work over my *Picoides* series.
He will separate the Fl. Klamath *P. arcticus*
& the Labrador form of *P. americanus*.
He stayed to lunch & Alicea Keyes also
dropped in to make a fifth.

Cambridge.

Wea.

SAT. JAN. 27, 1900

Ther.

14° 8 a.m.

Clear; wind N. W., decreasing.

24° 1 P.M.

In the Garden 22° 7 P.M.

Parus atricapillus 1. (heard call for times)

Dryobates pubescens ♂ visited nest twice.

Spent day in Museum preparing journal for binding. Constance Gurnough came to dinner & O. A. Botsford called in P.M. He had nothing to say about local birds as he has not been out for the past month. C. went to Andover this afternoon to stay at my cousins until Tuesday.

Wea.

SUNDAY 28

Ther.

20° 8 a.m.

A. M. clear; P. M. cloudy. Snow

36° 1 P.M.

Began falling at 6 P.M. changing to heavy rain later in the evening & lasting all night.

Regulus satrapa.. heard in garden

Parus atricapillus " " "

Dryobates pubescens " " "

"*incola canadensis*" at Lexington. Mr. Hoffmann.

Spent A. M. in Museum. Dined at the Thayers with Mr., Mrs. & Miss Thayer, Mrs. Linneman & Irving. Started for W. Newton at 4 P.M. & spent night at Melvins. Mr. & Mrs. James called in evening.

Wea.

MON. JAN. 29, 1900

Ther.

Early morning rainy clearing 32° - 1 P.M. before noon. P.M. clearing N.W. 24° 6° " " wind & falling temperature

Parus atricapillus.. one in garden.

Dryobates pubescens.. 1. at nest in "

Returned from the Melvins' this morning stopping at Dees greenhouse & buying a lot of plants. Spent day in Museum working on the bird notes.

Wea.

TUESDAY 30

Ther.

14° 7 a.m.

Clear with light W. wind.

30° 1 P.M.

24° 6° " "

Dryobates pubescens ♀ in garden.

Spent day in Boston. Trustees meeting 11.30 A. M. to 2 P.M.

Inspected the herbaria at Safety Unatls & found them all right.

Afterwards called on Frank Manning & went to Charles' with Matt Brown Jr.

Wea. WED JAN. 31, 1900 Ther.
 Cloudy with a light dust of 30° 8 a.m.
 snow 34° 1 P.M.
 31-6° "

Dryobates pubescens ♂, ♀ in garden.
Syrnium nebulosum. - One seen in Norton's woods
 by Faxon, Hoffmann & Purdie.
 Spent day in Museum. Dr. Bishop
 called in A.M. & lunched with us. He
 brought down birds which he collected on the
 Yukon last summer, among them new forms
 of *Parus hudsonius*, *Sayornis sayi* & *Contopus rich.*
 Mr. Abbott Frazar called in P.M. bringing a
 hybrid group, a *Sayornis* & *Sayornis* white & *Sayornis*
 all of which I took in each for Mexican *Ther.*

Wea. THUR. FEB. 1 Ther.
 Clear with fresh N.W. wind 8° - 8 a.m.
 17° - 1 P.M.

Parus atricapillus 1 ♂ in garden

Spent day in Museum. Began
 on an article for Bird Lore choosing
 the experience with the young Whistlers
 at Bernard's Pond in 1897. I struggled
 all day on the opening paragraph &
 got nothing for my pains.
 To Boston at 6 P.M. met C. at the
 Brunswick. We took tea with the Stones at
 the Hotel & saw a lot of fine slides afterwards

Wea. FRI. FEB. 2, 1900 Ther.
 Clear with moderate W. wind. 7° - 8 a.m.
 17° - 1 P.M.
 14° - 6° "

Dryobates pubescens ♂ visited nest four times
Colaptes auratus (2 ♂♂) eating Parkman's apples }
Corvus americanus ♂ flying over } the garden

Spent day in Museum working on the
 Whistler article and making almost no
 progress. It is trying to be considered a
 writer & yet to be unable to write.
 No calls except Stow whom I did not see.

Wea. SATURDAY 3 Ther.
 Clear with fresh west wind. 12° - 8 a.m.
 24° - 1 P.M.
 21° - 6° "

Spent the whole day in the museum
 working on the Whistler article. The Raven
 escaped from his cage early in the forenoon
 & flew up into the linden at the E. end of
 the house. When I opened several plates on
 him from our chamber window. He opened
 the door, came down & disappeared before I could
 walk. He came back to the house in evening with
 Faxon to see a Barred Owl that was seen flying
 there for some time. It was in the neighborhood
 in a group of pines.

Wea.

SUN. FEB. 4, 1900

Ther.

28° - 8 a.m.

Cloudy & calm with slowly rising temperature 36° - 1 P.M.
and rain at evening & dr. for the night.

Regulus satrapa ② in willow

Dryobates pubescens 3

Colaptes auratus - heard

Ceryle alcyon, one on pile, Charles River, E. Watertown

A.M. Drove to Chestnut Hills to call on
Miss Hayes & Mrs. Gay.

P.M. Attended lecture by Dean Hodges at St. John's
Church & called at the Haydens with C.
Two "Marsh" boys caught the Raven in the lawn Mipp
yard this evening & brought him back to me.

Wea.

MONDAY 5

Ther.

38° - 8 a.m.

A.M. Cloudy with rain & snow squalls 34° - 1 P.M.

P.M. clear. Violent W. wind all day 30° - 6 P.M.

Heavy rain fall last night & early this morning.

Dryobates pubescens. 3 visited nests

Spent day in Museum. Skinned Puffin &
wrote letters in A.M. In P.M. a man
called to plan for wiring the Museum for
electric lights.

Nutshell Club met this evening, Talked by
Strong on his methods of measuring characters.
Rather small meeting

Wea.

TUES. FEB. 6, 1900

Ther.

24° - 8 a.m.

Cloudy, calm, chilly; clearing in a.m.

Dryobates pubescens 7

Colaptes auratus 1

Spent day in Museum working on the
Whistler article. I seem to have lost what
been gift at writing. I have now possessed.

Wea.

WEDNESDAY 7

Ther.

24° - 8 a.m.

Clear, calm, mild; a rare day
for winter.

37° - 1 P.M.

34° - 6 P.M.

Spent the day working on the Whistler
article making slow progress. The
man began wiring the Museum for
electric lights. C. J. Maynard called
in P.M. He tells me that Foster H. Mackall
died last month & that he has bought his
entire collection.

Wea.

THUR. FEB. 8, 1900

Ther.

36° 8 a.m.

Cloudy & calm with fine,
icy rain beginning at 10 a.m. &
lasting into the night.

39° 1 P.M.

39° 6"

Dryobates pubescens ♂ visited here
Geothlypis trichas 7 birds heard by W. Down
in Observatory grounds.

Working all day on Whistler article &
still making almost no progress.
No calls.

Wea.

FRIDAY 9

Ther.

39° 8 a.m.

Very heavy rain last night, dropping
rain all day.

40° 11 P.M.

40° 6"

Dryobates pubescens ♂ visited here

Spent day in Boston. Trustees meeting
11:30 - 1 to consider minutes & was adj.
Dined with Estabrook & J. L. B.

Ordered two new cameras of Lloyd, a Reflex
& a long focus Ray. Bought a pair of
Black Lin. shes, Dragons, B. & C. common
white Peppers. C. came to Boston for the night

Wea.

SAT. FEB. 10, 1900

Ther.

30° 8 a.m.

36° 1 P.M.

Cloudy & calm.

Megascops asio. Seen in garden at 8:30 P.M.

Parus atricapillus 1/2 in garden

Dryobates pubescens 1/2 " "

Mimus migratorius (25) Waltham - bottle.

Spent day in Museum working on
Whistler article. Lotters called in P.M.

The Cummings & Roland Haywood
dined with us on 7 P.M. Roland saw
a Screech Owl fly from the Catalpa to an
old cedar as we were going to the museum at 8:30
P.M.

Wea.

SUNDAY 11

Ther.

36° 8 a.m.

Cloudy with flurries of snow.
The ground dusted lightly with
snow in the early morning

38° 1 P.M.

36° 6"

No birds in garden to-day.

Spent a.m. in Museum writing letters.
Purdie & the Miss Stones dined
with C. & me at 1 P.M.
Purdie walked through Mt. Auburn in
the forenoon seeing there a solitary
Pine Grosbeak & a Sharp-shinned Hawk.

Wea.

MON. FEB. 12, 1900

Ther.

36° 7.30 a.m.

Cloudy & calm with a drizzling
rain & chilly air.

43° 1 P.M.

42° 6"

Dryobates pubescens ♂ visited nest.

Spent day in Museum working on the
Whistler article which is nearing
completion I think. Batchelder, Kennard
& Lombardy called in P.M. Kennard
describes a Warbler which sounds like *H. celata*
which is wintering in Brooklyn.
Gilbert returned to work to-day after
an absence of four weeks.

Wea.

TUESDAY 13

Ther.

51° 8 a.m.

Violent S.W. storm with torrents

58° 1 P.M.

of rain falling all day. There

57° 6"

has been no snow or ice this month &
the frost is apparently all out of the
ground now for the rain water sank in.

Dryobates pubescens. ♂ visited nest.

Spent day in Museum working
on Whistler article. No calls.

Wea.

WED. FEB. 14, 1900

Ther.

30° 8 a.m.

Brilliantly clear with high N.W. wind

36° 1 P.M.

34° 5.30.

Dryobates pubescens ♂ visited nest.

Spent day in Museum. The writing
goes better. I began an article on
Louisiana's Finch this morning and
finished it by afternoon. in P.M.
went with C. to the Spelmann's to
see the baby. No calls to-day.

Wea.

THURSDAY 15

Ther.

30° 7.30 a.m.

Cloudy & calm.

43° 1 P.M.

Spent day in town. To Court House at
10.30 to witness 2 pictures to Golly Manning
and then to 33 Congress St. for a talk
with Estabrook about a new room for birds.
Dined at Parker's. Then to Lloyd's &
Charles. Then to Keith's Theatre where I
saw 2 hours. Then to Athletic Club where
I put on my dress suit to call at the
Cummings. Spent the evening at Jackson's
with the Ice Cream Club. Jeffries & Chubb
were absent.

Wea.

FRI. FEB. 16, 1900

Ther.

24° 7.30

Colder, calm, the sun half veiled

30° 1 P.M.

by gawny clouds.

28° 6 P.M.

Parus allicapillus ♂ *Sitta canadensis* ♂ & ♀,
S. carolinensis ♀ - Brookline

Spent A.M. in Museum working on Lincoln's
 sparrows article. In P.M. Walter & I drove
 over to Brookline to call on the Maine Hendersons.
 They have been seeing daily for weeks a strange
 bird, probably an Orange-crowned Warbler, which
 has visited them since the fall of it first. This
 bird did not appear during our call but we
 saw the birds before about. Lots of the
 chickadees perched on & took seeds from my
 hand.

Wea.

SATURDAY 17

Ther.

24° 8 a.m.

Cloudy and very chilly. Fine snow
 began falling at 5 P.M. continuing
 through the night.

28° 1 P.M.

24° 6 " "

Dryobates pubescens ♂ visited here.

To Newtonville at 10 a.m. To call on
 Maynard. Bought of him a number of birds
 from the Peter Cole. Supposed to be Wilson's
 types. A Nighthawk & Glossy Ibis were
 evidently the subjects of Wilson's poems & from their
 Maynard had the specimens of the Boston House
 & Tavern on y were given by Boston Museum.
 Dined at the Walter Deans at 7 P.M. with
 the Tickers & Miss George, an elaborate
 highly-pleasant dinner. Both called in P.M.
 bringing a Cambridge that Midgton as a gift.

First snow storm since Jan. 1. Cambridge.

Wea.

SUN. FEB. 18, 1900

Ther.

18° 8 a.m.

Clear with high N.W. wind.

23° 1 P.M.

The snow-storm continued through
 last night & up to 8 A.M. to day when nearly
 18 inches of fine, dry snow had fallen drifting
 badly in exposed places. Up to this time
 the ground everywhere, even in dense woods
 & all covered as well as here, has been
 wholly free from snow since the month began.

Dryobates pubescens ♂ visited here.

Spent day in museum reading & writing letters.
 Botched on called in forenoon. Will Stone in P.M.

Wea.

MONDAY 19

Ther.

12° 6 a.m.

Clear with strong N.W. wind.

26° 1 P.M.

Dryobates pubescens ♂ & ♀ in garden.

Spent day in Museum writing.
 Will Stone called to borrow my large camera.
 Karl, driving on Huron Avenue with his
 wife & child, tipped the high one &
 Dandy, escaping, trotted freely to his stable.
 being finally stopped by two boys on North St.
 Muller's Club meeting this evening.
 Home called about birds of Penelope Bay.

Wea.

TUES. FEB. 20, 1900

Ther.

14° 6.30

Clear with moderate W. wind.

35° 1 P.M.

Colaptes auratus 1 in lindens*Corvus americanus* 1 " "

Parus atricapillus heard, *Sitta carolinensis* ♀ } Species
Coccyus leucopterus (♂?), *Sporophila monticola* } in
 (5) *Myioborus phoeniceus* ♂ (Camp. Observatory grounds

Spent most of day waiting in museum.
 Walked in Observatory grounds after lunch.

Wea.

WEDNESDAY 21

Ther.

18°

Clear & calm

40° 1 P.M.

37° 6 "

Colaptes auratus ♂ & ♀ in garden*Corvus* 1 " "

Had a headache all day but
 kept at work until evening.
 When I went to bed I feel
 certain that I was in for
 a fit of sickness of some kind.

Wea.

THUR. FEB. 22, 1900

Ther.

Heavy rain storm with strong
 E. wind lasting all day & more of the
 following night & removing nearly all
 the snow which has given us
 good sleeping over the 18th.

Was too ill to rise this morning. When
 Dr. Dixon came to see me he
 told me that I had the grippe.

Wea.

FRIDAY 23

Ther.

Slight showers in forenoon
 clearing in late afternoon.

Wea.

SAT. FEB. 24, 1900

Ther.

Forenoon clear. Clouds gathering in P.M. with a rising S. wind threatening a storm which began soon after midnight with a heavy cloudb of thunder followed by showers of rain.

41°

Wea.

SUNDAY 25

Ther.

The heavy storm of last night ceased at day break. The rain has taken off all the remaining snow.

24° - 1 P.M.

Wea.

MON. FEB. 26, 1900

Ther.

Brilliantly clear with violent W. wind.

14° 6 AM

20° 1 P.M.

I am stronger to-day but my cough is still troublesome & my temperature above normal. Dr. Dine will not consent to my getting up. C. & E. R. S. take turns reading to me & I do some reading myself at Townsend's Narrative a fascinating book.

Wea.

TUESDAY 27

Ther.

Brilliantly clear with moderate N.W. wind. The coldest day of the whole winter.

-3° 6.30

8° 1 P.M.

For about half an hour after sunrise the Squirrel's hole in the big linden in front of my window steamed like a huge tea-kettle. Indeed the steamer fairly poured out in wreaths & jets and was driven swirling off by the wind. It must have been the breath of less 3 or 4 Squirrels within they kept their places inside the day.

Wea.

WED. FEB. 28, 1900

Ther.

A dull cold day with very little
Sun. In p. m. wind changing from
East to S.E. [I had a bad night,
but slept somewhat during the
morning].

8°

Wea.

THUR. MARCH 1

Ther.

18°

Drizzling, slaty rain, growing heavier.
Very slippery. Very strong wind, E. to S.E.
(Had a better night.)

Wea.

FRI. MARCH 2, 1900

Ther.

A cloudy morning, clearing; 33°
Afternoon brighter. Very strong, gusty
West wind, changing to South-west and
North-west.

Wea.

SATURDAY 3

Ther.

26°

A bright windy day, gusty and brilliant.
Wind West, veering to N.W. & S.W.

Wea.

SUN. MARCH 4, 1900

Ther.

23°

33°

Rather cloudy, wind west.

Wea.

MONDAY 5

Ther.

22°

44°

Snowing in the night and early morning
cloudy and still.

(A good night, coughing very little).

Wea.

TUES. MARCH 6, 1900

Ther.

18°

38°?

Wind east, snowing through the
morning quietly, to about two inches
in depth. Stopped in afternoon, but still
cloudy.

Wea.

WEDNESDAY 7

Ther.

21°

37°

Gusty west wind, bright day.

Wea.

THUR. MARCH 8, 1900

Ther.

21°

38°

A perfect day, sunny, still and
bracing.

Walter tells me that about a dozen yellow
crocus flowers appeared in front of the
Museum to-day but none
were fully open. Several have also
also showed themselves

Wea.

FRIDAY 9

Ther.

21°

36°

Much like yesterday, but slightly
overcast in afternoon

Some of the crocuses were
fully open this morning, Walter
says

Wea.

SAT. MARCH 10, 1900

Ther.

26°

46°

Warmer than Thursday & Friday, &
with more clouds. Wind West.

Walter reports a few squirrels in
flower to-day.

Wea.

SUNDAY 11

Ther.

16°

46° ?

Cold, bright, & windy. W. & N.W.

Wea. MON. MARCH 12, 1900 Ther.
Very cold. Bright sun, windy. 6°
26°

Wea. TUESDAY 13 Ther.
Pleasant. Cool, with East Wind. 15°
26°

Wea. WED. MARCH 14, 1900 Ther.
Perfect: hazy and still. 16°
32°

Wea. THURSDAY 15 Ther.
*Chilly and cold, beginning 19°
To snow about four or a little 45°
later.*

*I used to went down stairs for
fire time spending afternoon &
evening in the den.*

Wea.

FRI. MARCH 16, 1900

Ther.

23°

54°

Very heavy rain, following snow in the night, and clearing at noon. Afternoon clear, bright and warm.

Wea.

SATURDAY 17

Ther.

20°

55°

Bright and cold, fresh wind.

Wea.

SUN. MARCH 18, 1900

Ther.

9° 6 a.m.

28° 1 p.m.

Clear & cold with moderate W. wind

Spent day in my den. C. read to me in A.M. & P.M. I am still very weak & good for nothing.

Wea.

MONDAY 19

Ther.

34° 7 a.m.

Sunny but hazy; calm; very mild. 58° 1 p.m.

Much better this morning. Went out to Museum in forenoon spending two hours there. Nearly all the crocuses in bloom. Saw a honey bee in a snow drop blossom.

Wea. TUES. MARCH 20, 1900 Ther.
 53° 6.30
 Forenoon cloudy; afternoon
 clear. 54° 12 M.
 50° 4 P.M.

Dryobates pubescens - ♂ & ♀ visited nest.

Visited the Museum twice to-day
 10-12 A.M. & 2-4 P.M. Was
 too weak to do more than write
 a couple of letters and look over some
 of the accumulated work.

Wea. WEDNESDAY 21 Ther.
 23° 6.30
 Sunny but with the sky filled
 with clouds driving before the
 strong N.W. wind. An air which
 is raw & rather typical March day.

4 Chickadees visited the nest.
 Goldfinch singing sweetly & often in
 an apple tree in the garden.

Spent most of the forenoon & part
 of the afternoon in the museum.
 My strength comes back very slowly.

Wea. THUR. MARCH 22, 1900 Ther.
 23° 6 A.M.
 Clear with light N.W. wind 42° 2 P.M.
 44° 4 P.M.

Ampelis cedrorum (15) visited garden
Spinus tristis. - ♂ in plain winter plumage
 feeding on chesny seeds in garden & singing
 almost constantly the while in low sweet
 tones.

Spent most of the forenoon & the early
 part of the afternoon in the museum
 reading notes of the trip. Walked
 around the garden in the evening.
 my longest exposure thus far.

Wea. FRIDAY 23 Ther.
 34° 6 A.M.
 Forenoon cloudy & calm. P.M. 54° 12 M.
 clear with strong W. wind

Passerella iliaca. (2) in garden
Colaptes auratus 1 in lindens 7 A.M.
Corvus americanus (8) migrating high up.
Dryobates pubescens ♂ & ♀ visited nest.

Spent most of day in museum.
 Started on drive with C. at 2 P.M.
 but went only as far as Appleton & so
 returned it seemed to wind & chilly.

Wea. SAT, MARCH 24, 1900 Ther.
Clear & cold with strong N.W. wind. 27° 60 W.
34° 1 P.M.

Amiscolus Aeneus ♂ on ground in garden
Dryobates pubescens ♂ & ♀

Spent a long day at the Museum
& walked about the garden a
good deal. I am much stronger
to-day.

Arthur Bangs called in the
forenoon, E. E. Bailey in the
afternoon.

Wea. SUNDAY 25 Ther.

Clear & calm. Ground muddy
or frozen, grass brown.

In the garden:
Passerella iliaca 1 in lilacs
Corvus americanus (4) flying over house
Cyanocitta cristata (3) in lilacs 10 a.m.
Colaptes auratus 1 in cage morning
Dryobates pubescens ♂ & ♀ in bird suit.

Spent "most" of day in Museum.
Wrote a few letters in A.M. & P.M.
Will Stone came over & stayed to
tea.

Wea. MON. MARCH 26, 1900 Ther.
Cloudy with snow storm 22°
beginning at 5 P.M. 42°

Melospiza melodia 1 feeding on cherry buds
Passerella iliaca 1 " " " "
Dryobates pubescens

Spent the day in Museum
taking a walk through Highland
Avenue in the forenoon.

F. M. Chapman came on from New York
to lecture at Cornell Univ. & spent
the afternoon with me.

Wea. TUESDAY 27 Ther.

Alternating clouds & snow.
About 2 inches of damp snow
covering ground & blocking the two
roads this morning but none of it
melted before noon.

Took a walk up Brattle St. at
9 a.m. Heard a Robin calling in
Hartford Park. Either the same or
another was calling in our lindens
at sunset.

Wea.

WED. MARCH 28, 1900

Ther.

32°

Clear with strong N.W. wind 46°

Spent the day in the Museum.
Taking several ramblers about the
garden and walking up Sports St.
to the river.

Wea.

THURSDAY 29

Ther.

33°

44°

Brilliantly clear with strong
N.W. wind.

Took a number of photographs
in the garden to test my new
4x5 camera the Kodak Reflex
& long focus Prisms. Also photographed
the 8 & 9 of the Honey Beekeepers in the
area by the Museum grounds.
Leon C. Hildner & Oulam Borge collected
in P.M.

Wea.

FRI. MARCH 30, 1900

Ther.

29°

44°

A.M. clear, dead calm & very
warm. East wind in P.M. with gathering
clouds.

Walked up Highland St. at 10 A.M. On
reaching Mr. Smith's I found about 8 or 10
Crows Blackbirds flying to & fro among the trees
singing & calling. A Song Sparrow was singing
brilliantly under the trees. A Robin was
running about on the Green's lawn & a
Sitta Canadensis pecking at a stump in an
elm on the shore. Spent the rest
of the day reading & writing in the room.

Wea.

SATURDAY 31

Ther.

34°

43°

Cloudy with a light dose
of snow in early morning.

Pennisetum setaceum 1 in garden
Dryobates pubescens ♀ at home.

C. E. R. S. & Walter went to Jaffrey
for the day prospecting for diamonds.
Gave up. But finding nothing satisfactory.
Spent the day in the Museum.
Fred B. Mer. Hildner called on the

Wea.

SUN. APRIL 1, 1900

Ther.

Clear with strong W. wind.
The most beautiful day of the
spring thus far.

34°
5-3°

Merula migratoria 1 x full song at evening
in Hubbard Park.

Colaptes auratus 1 x in garden

Dryobates pubescens 2 at fruit

Spent much of the day in the
garden rambling slowly about.

It was delightful to hear a Robin
in full song at evening in Hubbard Park.

Wea.

MONDAY 2

Ther.

Forenoon clear; afternoon cloudy. 60°

Colaptes auratus 1 x in garden.

Merula migratoria (2), Melospiza fasciata 2,
Passerella iliaca 1, Corvus 3, Dryobates pubescens
♂ & ♀ in garden.

Drove over a Fresh Pond with C. & M.

4 Beaver Dicks & 3 Gulls in water.

1 Sitta canadensis 1 juncos & about a
dozen Song Sparrows in the Hubbard's.

A Blenheim flying over the fields near
Grays.

Chapman called in P.M. & told her

Wea.

TUES. APRIL 3, 1900

Ther.

Cloudy with gentle rain

40°
48°

Merula migratoria. Two in full song
at evening, one in the bushes, the
other in Hubbard Park.

Spent day in museum. J. G. Clark
came out in A.M. bring on a ♂
European Widgeon taken at Holford, Wm.
He thinks he can buy it for me.
I am now able to do a good deal of
light work but am still weak.

Wea.

WEDNESDAY 4

Ther.

Brilliantly clear with fresh W. wind.

Parus atricap. 1 x, Merula 2 x, Colaptes 1 x
Molothrus 1 heard above Hubbard's
log in bud. Loxia minor (♂ & ♀) flew
over our garden in A.M.

Spent much of day in garden planning
the spring work. Also wrote a few letters.
Drove through Mt. Auburn with C. in P.M.
Mr. Libby called at 3 P.M. He has been
in for 2 weeks but is going back to
the farm on Saturday.

Wea.

THUR. APRIL 5, 1900

Ther.

30°

50°

Brilliantly clear, the forenoon
dead calm, a breath of E. wind
in the afternoon.

Spent most of the day in the garden.
Patsy & his men were digging a
large pit for a new pond on the
E. side of the garden next the jungle.
A Robin alighted in the crow's nest
after the new cage & found very warm.
I went to Golon & Concord for the day.
I drove to Parker's with her in the morning
& to W. S. S. to visit her at evening.

Wea.

FRIDAY 6

Ther.

32°

60°

Clear, the forenoon very pleasant
a heavy cold N. wind in P.M.

James - 1 in garden
Chickadee 1/2

Out in the garden nearly all day.
Transplanted some *Chelidonium* in
P.M. getting very tired, in
fact exhausted.

Wea.

SAT. APRIL 7, 1900

Ther.

40°

56°

Brilliantly clear with strong
N. wind.

Spinus tristis 1. x. full song in garden
Merula migratoria 2. x. " "
Colaptes auratus 1 x. " "
Agelaius phoeniceus " "

C. started for Washington by 9 a.m. train
I had planned to go to Ball's Hill in
P.M. but was too much up by the
collapse of yesterday. Pender came out
at evening to stay with me.

Wea.

SUNDAY 8

Ther.

35°

52°

Brilliantly clear with fresh
N. wind.

Parus olivaceus 1 x in garden
Merula mig. 2 x at house
Junco hyemalis 1 heard in garden.

Spent the day in the Museum
with Pender. We read &
collected by hours. I am
feeling well & disappointed
still.

Wea.

MON. APRIL 9, 1900

Ther.

28°

42°

A. M. clear. P. M. cloudy
A bitterly cold N. wind.

In the garden

Amphisp. cedronum (15) alighted in pear tree

Parn. atricapillus (3) 1 ♀

Mureta migratoria 1 ♀

Dryobates pubescens ♂ ♀

Colaptes auratus 1 ♀

Corvus americanus 2

Spent most of day in Museum
writing letters etc.

Wea.

TUESDAY 10

Ther.

Brilliantly clear with light N. wind. 26°

Mureta migratoria 1 ♀ In the garden

Parn. atricapillus 1 ♀ " " "

Dryobates pubescens ♀ " " "

Colaptes auratus 2 " " "

Corvus americanus (2) " " "

Spent most of day in Museum
preparing a field list for Corv. etc.
Also walked a little in the garden
Mills is progressing nicely with
the cross-section of the road
Journal from last evening.

Wea.

WED. APRIL 11, 1900

Ther.

34°

52°

Clear and calm with an
occasional puff of east wind.

In the garden

Mureta migr. 3 ♀ at evening & others calling

Parn. atricapillus 1 ♀

Junco hyemalis 1

Sporus. tricolor 1 ♀

Amphisp. ced. heard

Colaptes 1 ♀ *Dryob. pubescens*

Had another nervous collapse to-day but
kept a walk in the Museum & garden.
Pardie had to run in the evening

Wea.

THURSDAY 12

Ther.

Cloudy & calm with fine, steady
rain. 34°
52°

Spent the entire day in the
Museum working on some articles
written last winter. One goes to
the Arch, the other to Bird Book.
Horton & Pardie came in to
Chapman's last lecture in the
evening. His campaign (on Bowser's part)
has been a brilliant success

Wea.

FRI. APRIL 13, 1900

Ther.

40°

42°

Cloudy and calm with
fine rain much of the time.

Spent most of the day
helping waterbury Potey & his men
who have planned a bed of new
plants in the garden. It was
an ideal day for this work.

I got very tired but very fit
of the experience from the
things of the past.

Wea.

SATURDAY 14

Ther.

33°

51°

Clear with cool N.W. wind

Ampelis cedrorum (42) alighted in garden
Merula migratoria (3) " "

Mr. Bibby left the Barrett farm to-day.
Spent most of the day working in
the garden transplanting trees. Chopped
all these in the morning and finished
fencing along the wide path which
I opened last autumn in the path.

The grass is getting green in the
place. Pardon me in writing. ^{Joseph Allen} ^{with me}

Cambridge

Concord

Wea.

SUN. APRIL 15, 1900

Ther.

Cloudless with fresh W. 5-8°
wind. The most beautiful day thus far.

Ampelis cedrorum 6

Dryobates pubescens 5

Anas obscura 32 Fresh Pond

Canis a. domestica 40 " "

In A.M. took a drive with Purdie
around Fresh Pond, to Poyson Park &

through W. Arboretum. Saw a Woodcock
2 flocks of Redwings, a Sparrow, a
Kingfisher (W. Arboretum), a great many Junco
etc. Heptacris in garden at W. Arboretum. First
Geothlypis trichas and

Wea.

MONDAY 16

Ther.

33

62

Clear, calm, very warm.

Spent A.M. in garden. Potey's men
were moving perennials into the large middle
space in the flower garden. Mills was working
on floor of pond. Heard a Bluebird call
& looking up saw 2 of them flying over
towards N. Also heard a Goldfinch sing &
saw 10 Cedar birds.

With Purdie took 2 P.M. train for
Concord. Gilbert met us at W. Bad. Station.
Took a short walk behind hill. Heptacris
& *Geothlypis* in flower at cabin

Wea.

TUES. APRIL 17, 1900

Ther.
40°

Cloudy & calm with continuous
but light & fine rain.

Purdie & I took a walk in the
forenoon to Davis' Hill, in the
afternoon a walk along the
new path to the Banner meadows.
Birds were rather numerous &
in full song most of the day.
At about 7 P.M. a large
drum on the cabin. Gilbert &
Pat saw 3 flocks of geese at Gravel.

Wea.

WEDNESDAY 18

Ther.
53°

58°

Cloudy with heavy S.W. wind
& rain in the early morning
& again at evening.
Spent the day behind Ball's Hill
where I have resumed cutting
out the around the springs
& new wood roads. Karl worked
there all the morning. Pat & Karl
in the afternoon. The high wind
silenced the birds & I heard only
a very few.
Purdie went to Ballena to hunt
the night.

Wea.

THUR. APRIL 19, 1900

Ther.
56°
70°

Early morn. Cloudy. P.M. clear
with violent W. wind.

Spent forenoon at farm driving
up & back. Christian Purdie & his
wife were here & inspected the
place. They are very anxious to
take charge of it for me.
Uncovered very wild flower beds &
found the plants in fine condition.
Wrote letters in P.M. & took a walk
with Purdie just before dark.

Wea.

FRIDAY 20

Ther.
41°
74°

Clearer & very warm. Wind
light from N. to N.E.

Spent the day at the farm
driving both ways, dining &
supping in the old house.
The men (Benson & Hansen)
were ploughing. Gilbert & Karl
were setting up beds etc. It
was very warm. Mosquitoes
appeared in numbers in P.M.
It was dark when we got
back to the cabin.

Wea.

SAT. APRIL 21, 1900

Ther.

37°

73°

Sun shining during through
thin clouds. Light S.W. wind

Spent the entire day with
Pat & Hansen in the field in
front of the wood shed transplanting
pines taking them from the
plantation I made three
years ago & carrying several
bunches of them across the field.
Purdie & Albion drove to Concord
in P.M.

Wea.

SUNDAY 22

Ther.

47°

59°

Cloudy with frequent
showers of fine rain. Wind N.E.

Purdie & I walked to N. end of
Davis' Hill after breakfast,
in late P.M. along the same
route to Blackman's hill.

E. R. Simmons & Walter Deane
drove down to the Hill in afternoon
& spent about an hour looking
over our place for the summer.
We decided to go to Jaffrey for July.

Wea.

MON. APRIL 23, 1900

Ther.

45°

60°

Similar to that of yesterday
but with lighter & less frequent
thunder & lighter wind, settling with
N. & N.W. in P.M.

Spent the entire day transplanting
pines & cypresses in the field
by the wood shed. Had Pat, Karl
& Hansen to-day - a strong force
who made great progress.

Purdie spent day in Boston

Wea.

TUESDAY 24

Ther.

48°

58°

38.8 P.M.

Forenoon cloudy with N.E.
wind & frequent showers of
fine rain. A violent gale of wind
with hail in P.M. Calm &
perfectly clear in forenoon

Spent the day working
with Pat, Karl & Hansen
in the field opposite the
wood shed. Purdie & Albion
drove to Concord in P.M.

Wea.	WED. APRIL 25, 1900	Ther.
		33°
Brilliantly clear with heavy		68°
N. W. wind.		52°

Spent the day at the farm driving up in early morning, back at 6 P.M.

Worked on the flower garden taking the flat behind the house that was planted with vegetables last year & turning wells through & around it. Pardon walked to Green Hill in A.M. Mr. Dobby came up to see account of spring in day -

Wea.	THURSDAY 26	Ther.
		37°
Brilliantly clear with sunset		69°
N. W. wind.		40°

Spent day at farm. Collected about 50 red pines in A.M. & planted them north of the orchard. In P.M. dug about 200 white pines which are to be put on the farm here in autumn. Pardon at farm all day.

Wea.	FRI. APRIL 27, 1900	Ther.
		35°
Cloudy & cold, with high,		67°
harsh N. W. wind; a most		40°
disagreeable day for this season.		

Spent the forenoon at the farm, planting various things. Drove to Concord at noon, dined at the Hayes', called at the Manion where I saw Mrs. Linnings & G.R.S. and drove back to the farm at 4 P.M. to the car at 5 P.M. Birds silent & but very few to be seen.

Wea.	SATURDAY 28	Ther.
		33°
Early morning clear, rose		61°
of day cloudy with N.E.		42°
wind & occasional light showers.		

Spent the day at the farm driving up at 7.30, walking back at evening by way of Pine Ridge. Worked at Puffin Rock in the forenoon planting some things sent me by Bradford. The Petersens moved in to Karl left for Cambridge this morning.

Concord

Cambridge

Wea.

SUN. APRIL 29, 1900

Ther.

First Cherry Blossoms at Cambridge.

Cloudless with light W wind

68°-11 P.M.

Spent A.M. digging plants near
Gilbert Crossing. Then rain &
Vermont Ave. railroad embankment,
where I collected numerous birds
principally.

Took 4:10 P.M. train to
Cambridge. Vegetation there is much
or more ahead of that in Concord.
About a dozen Cherry Blossoms out in
the garden, the first I have seen.

Wea.

MONDAY 30

Ther.

53°

Forenoon clear; afternoon hazy

78°

The warmest day thus far.

68°

In the Garden

Yellow Warbler 3, arrival

Canada Warbler 1 hd.

Chipping Sparrow heard

Goldfinches (4) in spruce 33, in half change

Cedar Birds heard

Spent day superintending Patsy
& his men. We planted a few things
in the garden, the pond, which is
practically finished. Night.

Cambridge

Wea.

TUES. MAY 1, 1900

Ther.

52°-76°

Brimely clear with fresh N.W.
wind.

Redstart 3 in lindens 6 a.m. arrival
Yellow-rump 3 " " "
Black-throated Creeper 3 in pear tree
Red Crossbills heard
Brownish Grackle 6 flying over
Robins 2 or 3, Chipping 2, Flicker 1

Spent day working with Patsy & his men.
Ostrum Bangs lunched with us.

Wea.

WEDNESDAY 2

Ther.

42°-66°

Clear & calm; a fine day.

64° P.M.

Spent the day working in
the garden with Patsy, Karl
& Gillette. We moved a lot of
things & planted a number of
wild flowers received from
Hansford's nursery.

Purdie went to Willsbury for
the evening. I called on
Mrs. Alving.

Wea.

THUR. MAY 3, 1900

Ther.

Cloudy with heavy rain.
 began to clear up & cooling
 at 4 P.M. At 8 P.M.
 the clouds dispersed & the
 sun was clear to a later
 (at 8 P.M.) on board a
 wooden house.

Spent the day in the
 house writing letters etc.
 Gilbert came to Concord &
 returned at 5 P.M. with a big
 bunch of grass & juniper & cedars.

Wea.

FRIDAY 4

Ther.

52° 7 a.m.

70° noon

Clear with strong, cool N.W. wind.

Took 8.34 a.m. train for
 Concord. Found Peterson &
 on horse on Balls Hill & drove
 to farm where I spent the
 day with Horner & Peterson
 clearing the ground of red pine from
 bushes & other brush & cutting a
 wood road through. Had a
 delightful walk home at evening.

Wea.

SAT. MAY 5, 1900

Ther.

36° highest

58° lowest

Sunny, the sky half-filled
 with clouds, violent & dry N.W. wind
 snow squall at about 10 a.m.

Took 8.13 a.m. train for
 E. Lexington where I met
 O.C. Bothwell by appointment.
 He had secured a Century Boat
 with which we explored the
 reservoir thoroughly. Found only one
 Quaker's nest 6 eggs. Photographed it &
 the frog & returned to Balls Hill at 5 P.M.
 finding Peterson on train.

Wea.

SUNDAY 6

Ther.

34°

54°

Apparently cloudless but time
 few about 10 a.m. by a dark smoky haze. Strong, cool
 S.W. wind. Potatoes, frozen ground
 & Benson potatoes thrown with a
 early this morning. To do not
 work in the cabin.
 Spent a.m. writing, P.M.
 chopping down trees behind the hill.
 Peterson walked to farm. We went
 to Balls Hill (Log Cabin) early this
 morning.

Wea.

MON. MAY 7, 1900

Ther.

Cloudless with strong N.W.
wind

35°

60°

Spent day at farm finishing
cutting out the new wood
road. Went back to the
ice house.

Wea.

TUESDAY 8

Ther.

Cloudy with light showers.

37°

62°

much warmer feeling &
actually warmer at evening
when (at 7 P.M.) the ther-
mometer was 60°.

ice gone, but more around
lost night. All day long.

Boat's hull was above water
birds mostly warblers. There
were some sparrows too.

Spent day at Ball's & Davis &
Hills working with Pot.

Wea.

WED. MAY 9, 1900

Ther.

48°-80° reg.

Early morning clear & very
warm with strong W. wind.

65° 3.45 a.m.

57° 7 P.M.

Remainder of day cloudy with heavy
rain from 10 a.m. to 12 m.

Wea.

THURSDAY 10

Ther.

30°-68° reg.

Clear with high N.W. wind

34° 5.30 a.m.

Several snow squalls in P.M.

37° 7 P.M.

Ice thicker than windows glass found
along the edges of flooded windows across
the river. Pot had to break his way
through at this morning. No signs of frost
on one side. My wild flowers arranged.

Visited Ball's farm in early morning.

Bitingly cold there. Sparrows were

of day were most thick when the

men were working on the wood-

Wea.

FRI. MAY 11, 1900

Ther.
28°-58°_{avg}

Clear with strong W. to S.W.
wind. Early morning rather cold.
Pete brought ice $\frac{1}{4}$ in. thick from
the warehouse across the river. The
ground was frozen hard at the cabin
and strange to say the ferns, young
foliage of trees & shrubs & wild flowers
show no signs of injury.
C. drove down from Concord in
a.m. & on down to the farm
beginning visiting Pacific House. Saw life
at 2 P.M.

Wea.

SATURDAY 12

Ther.
33°-56°

Clear with S.W. wind in
a.m. but wind in P.M.

Drove to the farm at 9 a.m.
returning at noon. Spent
most of P.M. photographing
mangrove & other things
in front of the cabin
visited Dalton's Hill at
5 P.M. & got a lot
of *Viburnum pedunculatum*.

Wea.

SUN. MAY 13, 1900

Ther.
51°-76°_{avg}

Wea.

MONDAY 14

Ther.
50°-70°_{avg}

Wea.

TUES. MAY 15, 1900

Ther.

45°

70°

Clear with thro. S.W.
wind. Thunder storms at evening.
Country flooded with birds.
hatched about everywhere.

To Bowen farm at 9 a.m.
Walked to Pickett Road &
through the old oak woods.
About Thayer arrived by 9.30
train & I found him at cabin
on my return. In late P.M. we
walked to Davis' Hill.

Wea.

WEDNESDAY 16

Ther.

54°

73°

Clear with light S.W. wind

After breakfast Thayer & I walked
around Bull's Hill. At 8 a.m. we
drove to the farm where we spent
about 2 hours. At 11 a.m. C.F. W.
& E. R. S. arrived from Cambridge
Mass. & Mrs. Edward Benson appeared
at 1 P.M. to drive with us. In P.M.
we drove to the farm.
At 5 P.M. Thayer & I walked to
Hobbs' Hill.

Wea.

THUR. MAY 17, 1900

Ther.

47° - 63°

Cloudy, wind N.E. in a.m., S.W. in P.M.

In a.m. walked with Thayer to Davis' Hill
& Pickett's place returning at 11. Birds
numerous but scattered.

In P.M. we paddled up to Nashawink
bridge where Thayer left us to take the
cars for Dublin, N.Y.

On the way back I called at the Thayer's
where I saw Mr. K. & Miss D.

Paddled back to cabin in evening twilight

Wea.

FRIDAY 18

Ther.

Cloudy & cool with heavy rain in
late P.M.

Visited the farm in a.m. & built some
brush pens. A fine ad. ♂ Cape May Warbler
singing in the flowering orchard behind the house.
A Trillium - Flycatcher at cabin.

Took 4.20 P.M. train for
Cambridge. Found the garden
alive with birds. A pair of Catbirds
have settled there.

Wea.

SAT. MAY 19, 1900

Ther.

Heavy N. E. rain storm.

Spent A. M. in Museum. Took 1.08 P. M. train for Woods Hole, where a small knockabout from Nahant met the train. With Waldo Forbes & Jack Hollowell I crossed to the island in a N. E. gale & floods of rain. Saw a White-winged Scoter & a few Terns. Found Edward W. Emerson awaiting us at the Wm. Forbes house where I am to spend two days. He was chatty with bright open face.

Wea.

SUNDAY 20

Ther.

Clear in the early morning; cloudy most of the day with cool S. W. winds. Emerson & I spent A. M. driving about through the pine oak bush & oak woods. Skinned 2 Deer. Birds abundant but mostly silent.

After dinner. Out in Mrs. Forbes' pretty little circular walled garden for an hour. In late P. M. walked to the beach from where we had a superb sunset. Took only 2 photographs to-day.

Wea.

MON. MAY 21, 1900

Ther.

Clear & rather warm with cool S. W. wind.

Spent an A. M. driving about about through the woods stopping often to try for a photograph of which I took 4. Birds very numerous & singing well.

In P. M. took a long drive with Mr. Emerson - along the S. shore to the Dune, across the Dune nearly to its W. end, back along the N. shore reaching the house at 7 P. M. Skinned 6 or 8 Deer. Took 6 photos this P. M.

Wea.

TUESDAY 22

Ther.

Clear & cool with strong N. W. wind.

Mr. Emerson & I crossed to Woods Hole before a strong breeze & took the 8 A. M. train for Boston. I reached Cambridge about noon. Found a ♀ Whippoorwill in an apple tree in the garden & exposed two plates at her & two more on a flowering dog wood. Took 5.10 P. M. train for W. Salem where Arthur Chittenden met me at station. Beautiful drive to his home. Wood Thrushes singing on every tree at home.

Wea.

WED. MAY 23, 1900

Ther.

Clear, rather heavy, warm but with
cool E. wind.

Took 2 photos of house before breakfast.
After breakfast went to cedar swamp
where we found more of A. M. photographing
a Brown Creeper's nest which Carlsson
found about a week ago. It had 4 young
to-day. Both birds flew at us. In P.M.
fishing in pond.

Returned to Concord by 3.12 P.M.
train.

Wea.

THURSDAY 24

Ther.

Cloudy with E. wind & some
appearance of a gathering storm.

Spent the forenoon walking in
the garden. Saw there a pair of
Canadian Warblers, a pair of
Mourning Doves, a pair of
Throats, an Oven Bird, a Gray-chinked
Throat & an Olive-backed Thrush.
Miss Marion Kyles & Miss Davidson
came from Concord in P.M. to tea
with George, Mary, Walter & Wagon Deane.

Wea.

FRI. MAY 25, 1900

Ther.

Fair with a violet sun & cool E. wind.

Spent the forenoon walking in
the garden with Karl. There were
a number of N. virens then including
a pair of Canadian Warblers, an Oven
bird, a White Throat, a Black & Yellow
Warbler, a pair of Maryland Yellow-Throats
a Gray-chinked Throat & a Swainson's
Throat. The last two sang a while at
evening. In P.M. went to South Hall
with C. to attend Chapman's Concord Club
meeting.

Wea.

SATURDAY 26

Ther.

36°-48°

Fair with dim sunshine at intervals
Cool with light E. wind.

Returned to Concord by 8.34
train E. R. S. driving me to the station.
Found Mr. Bibby on the train.
He has been engaged by Mrs. Ritchie
for the summer. I found him
across the river. At 10.30 I drove
to the farm returning at noon.
Mr. & Mrs. Gleason called. In P.M.
took 2 photos one of a flock
of 303 blossoms of white joshua.

Wea.

SUN. MAY 27, 1900

Ther.

41°-77°

Clear & nearly dead calm all day.

Directly after breakfast went out with the camera. Gilbert took me to the Pondridge's nest with 9 eggs on face of ridge on W. side of Boon's Hill. Examined 3 places on in the bird observatory. Then went to Davis's Hill & examined 3 more places.

Went & Alvin Stone arrived at 11. He went all over to Davis's Hill. After dinner I went up with him to Davis's Hill. The Stone left at 4.15 P.M. A few mosquitoes.

Wea.

MONDAY 28

Ther.

43°-68°

Cloudy with chill E. wind, clearing at sunset. Eclipse of sun this A.M. dimly visible here through rents in clouds 9-10 a.m.

To farm at 8 a.m. Crossed through oak woods to Pulpit Rock, then by red pines to house. Returned to cabin at noon. Chopping after dinner, writing 4-6 P.M. After supper walked to Davis's Hill, over Pine Ridge & in. By way of Pine Bet & the river path. Very cool, no mosquitoes.

Wea.

TUES. MAY 29, 1900

Ther.

35°-73°

Cloudless & calm all day. Very cold last night. Ice & water froze & it is said that all the Hymenoptera blossoms were killed & the crop ruined.

Walked around Boon's Hill & to the woodshed just after breakfast. Work from 10 a.m. to 12.30. At 1 P.M. C. came from Concord driving down the Minkas River. After dinner we all walked to Davis's Hill & back along Pine Ridge & over Boon's Hill. The Concord left at 4.30. I got cold yesterday & on long hills with a walking stick.

Wea.

WEDNESDAY 30

Ther.

48°-78°

A.M. clear; P.M. cloudy.
Strong S.W. wind.

I feel so wretchedly when I arose this morning that after a short walk around Boon's Hill I went back to bed & slept until noon.

As we were talking dinner was served. Carver ran in to the landing. My visitors were Miss Bush of Concord, Miss Lois Howe of Cambridge, a Miss Edwards & a McDowell & back. Then to Davis's Hill & back over Pine Ridge. Spent photographing the nest of Hesperis hatcher found by C. Johnston.

Wea.

THUR. MAY 31, 1900

Ther.

Clear with light S. W. to W. winds. Apparently warm in P.M. 60°-83°

Drove to farm at 8 a.m.

Photographed Ladie's Slippers in woods near Pulpit Rock. Saw there a few Bay Breasts & heard a Black-throated Bluebird. Took a cab at 11 & slept until 12.30 as I feel weak & ill with my cold. In P.M. wrote & took photos. saw cabin & of Nashville House in care.

Wea.

FRI. JUNE 1

Ther.

Sunny but hazy. Day warm with S.W. wind in P.M. 62°-84°

Spent the forenoon near the cabin taking some photographs & writing. In P.M. Gilbert came in with him to Cemetery Brook where we tried in vain to net some small fish for the pond at home. Saw a Coot (Fishes) at the Holt. Got *Troglodytes*, *Hesperomys*? a few other plants. Mosquitoes bad to-day.

Wea.

SAT. JUNE 2, 1900

Ther.

68°-82°

Sunny & cloudy by turns. A violent W. to S.W. wind which brought several sprinkles of rain in P.M. I am still feeling weak & listless with my cold. I think that I walked a little more than in the spring behind Davis Hill in A.M. In P.M. crossed the river & got a goodly quantity of yellow-eyed grass. All the weeds in the grounds gone to-day.

Wea.

SUNDAY 3

Ther.

Cloudy with cool & wind. Heavy rain in late P.M. & evening

Spent A.M. digging plants & visiting near the Davis Hill & Pine Park among other places. Birds singing freely. After dinner packed up our things & took 4.10 P.M. train for Cambridge carrying him in heavy rain. Found C., E. R. S., & Miss Swasey at the house in Cambridge. The garden I & nearly lost on account of the rain.

Wea.

MON. JUNE 4, 1900

Ther.

Clear & cool with strong W. wind.

Spent day working in garden
setting out plants brought from Concord,
transplanting others etc. Heard a Blackbird
singing; all the other migrants gone.
The pair of Cat Birds still present &
evidently breeding but no nest found yet.
2 ♂♂ Robins singing almost incessantly all
day. Also heard a Wood Pewee, Red-eyed
Redstart, Yellow Warbler, Chipping & Cow
species of Grackles.

Wea.

TUESDAY 5

Ther.

Clear & calm; E. wind in P.M. Warm

Took several photographs in garden
two at E. Watertown & two in
Belmont C. during run to the
last two locations about noon.
In P.M. drove off water from
pond & placed water lilies,
water chestnut, Pickard weed
etc. Bough for to send.

Branchial cysts seen &
removed in day.

Wea.

WED. JUNE 6, 1900

Ther.

Clear & warm with S.W. wind.

Off photographing most of the
forenoon using the 6 1/2 x 8 1/2 camera.
C. drove me first to Arsenal Ridge,
E. Watertown where I exposed three plates &
found a number of common birds singing.
We next went to Payson Park stopping
by the way to photograph the big willow
on the Adams place. Finally we drove
to the Hensley Reservation where we left
the horse & visited the waterfall &
then back to the house. On the way found a Mallard
Lake near the 6-1/2 x 8 1/2 camera. A pair of Mallards
were seen near the 6-1/2 x 8 1/2 camera.

Wea.

FRI. JUNE 8, 1900

Ther.

Clear & rather warm with fresh S.W. wind.

Miss Gibson spent a.m. driving in Belmont & S. Lexington stopping twice in Prospect St. & over in Wellingtonham. I had intended taking photographs but there was too much wind. Collected a number of plants including Aconitum. The Prospect St. region has been much ruined by fire. The Prairie Warblers have apparently deserted it.

Wea.

SATURDAY 9

Ther.

Wea.

SUN. JUNE 10, 1900

Ther.

Brilliantly clear with strong S.W. wind. Cool.

To Concord by 9 a.m. train. Got home & buggy at Mr. Mann's & drove to Cemetery to see nest of Canada Warbler for which I have been watching it 15 m. but no bird appeared. Nest in dead top of gray Birch 20 ft. up no hole. Drove to Keyes'. Mr. K. found me & we drove up through Exeter road & back by way of Barre farm. Did a lot of plants including *Lupinus*. Took birds. Drove to Keyes' Mr. K. found me to Hober's where I was 5-20 P.M. train for home.

Wea.

MONDAY 11

Ther.

Clear & cool with strong S.W. wind.

Took 3.03 P.M. train for Wareham.

Outram Bangs met me at Station. Pheasants down down. Lilies in profusion & in full bloom. Saw three Mon. Pheasants in open grass fields, a pair & a single well. They stood erect & squatted when I got out of the wagon lying close as I approached. A female was crowing near the Bangs' house. Walked about the grounds & gardens before dinner. Then Whiffpoorwits singing on wing.

Wareham

Wea.

TUES. JUNE 12, 1900

Ther.

Clear - warm with strong N.W. wind.
Started off at 8.30 A.M. in open wagon
taking camera, rubber boots etc. Drove
directly to Reservoir Pond where in open
most of day looking for nests. Found
a Parula Warbler's with 3 & a Pine Warbler's
with 4 eggs, and these eggs incubated badly.
Only one pair of Cowbirds seen at this
pond. Arrived home & a high bird seen
during drive. Drove home through E. Wareham
Heard 4 Thrushes singing & saw a hen Partridge
with young in the wood road. Reached home
at 7 P.M. & found Mrs. Sturges & children there.

Wea.

WEDNESDAY 13

Ther.

Brilliantly clear with fresh N.E. wind.

Spent practically the whole day driving about,
through the fascinating Cape woods, reaching
first an extensive pine swamp where Bangs over
took the nest with 7 eggs of an Acadian Owl
(the pine thick is still flowering - rather common
over a brook), lunching on the shore of
Gardner's White Island Pond, passing a
ruined hunting camp which Daniel Mosher
used to frequent. Hermit Thrushes common.
Heard a hermit warbler near W. Bangs (see)
Reached home about 7 P.M. Took several
insects & a lot of plants, no birds.

Wea.

THUR. JUNE 14, 1900

Ther.

Cloudy with heavy rain from 12 - 1 P.M.

Started at 9 A.M. & drove through
Wareham to a white pine country beyond.
At noon the rain forced us to seek
shelter in a barn. Lunched on the
banks of a pretty brook with a pine clad
knoll behind us. Dry a number of plants.
But found no nests & took no photographs.
Reached home about 4 P.M. Found
a Mr. Coffin there. Phoebe coming
was the house at home.

Wea.

FRIDAY 15

Ther.

Clear & cool.

Left Wareham by 8.15 A.M. train
& reached Cambridge about 11 A.M.
Spent most of the afternoon taking
out the plants brought from Wareham.
They include *Cornus*, *Hudsonia*, *Asclepias*,
Sambucus, *Coultas*, *Asclepias* etc.

Wea.

SAT. JUNE 16, 1900

Ther.

Brilliantly clear with light W. wind.
Rather warm.

With Gilbre took 8.34 a.m. train
to Concord. Crossed the river to
Boals Hill, where I spent forenoon
at 2 P.M. drove to farm. Walked
back through woods by way of Ralph's Pond
the Spring, Perscott's farm, & Dorris' Hill
reaching cabin at 6 P.M.

Wea.

SUNDAY 17

Ther.

Clear & cool with N. E. wind.

Drove to Concord at 9 a.m. met
C. E. R. S. & Mr. Bennett at the
"Continental". In a.m. drove through
Essex woods - visiting Boulder field.
Ret. road by way of Boals Hill Pond.
Dined at Hotel. In P.M. Mrs. & Mrs.
Emerson joined us. We all drove to
Fairyland & Wolden.

Wea.

MON. JUNE 18, 1900

Ther.

Brilliantly clear with strong, cool E. wind.

Spent the forenoon in the Boals Hill
woods chopping a few trees & visiting
Dorris' Hill. Also he. spent some
magazine & found some to the end
in front of the cabin.

Took the 4.20 P.M. train for
Cambridge.

Wea.

TUESDAY 19

Ther.

Clear & cool with light S. W. wind.

Started for Wolfboro by the 9 a.m.
train from Boston with Estabrook.
Judge Abbott joined us at Concord, N. H.
& J. K. Board at the "Wiers" where we
were all met by the "Swallow" with
Miss Ada Board & Mr. Mrs. Rubin on board.
Crossed the border to Wolfboro, Mass.
meeting an arrival, & dinner at
5 P.M., Graduating Exercises in Hall 7.30-10
P.M., Alumni Dinner 10-12.30 P.M.
To bed at 2 a.m.

Wea.

WED. JUNE 20, 1900

Ther.

Cloudy & rather sultry.

Left Wolfboro at 8.30 A.M. & reached home at 1.30 P.M. Found Dr. Woodhouse of Phila. here & passed two pleasant hours showing him my collections. He is 79 years old but still hale & vigorous.

C. started for Lancaster a few minutes before I got home. Saw wire to Boston first & then Harris killed off on the New England for Europe.

Wea.

THURSDAY 21

Ther.

Clear & warm with strong W. wind.

Spent day in Hanson writing letters etc. E. R. S. drew Danda's in A.M.

The ♀ Cat Bird is sitting on her nest in a cluster of Spirea bushes on the head of the grape arbor. The ♂ sings but little now. Orioles have nearly ceased singing. I hear at all hours the Red Star, Yellow Warbler, Red-eyed Vireo & Robins etc. occasionally as follows. Chipping in the garden and the

Wea.

FRI. JUNE 22, 1900

Ther.

Cloudless & warm with light variable E., S.W., & W. winds

Spent whole A.M. photographing in Maple Swamp using 4x5 & 6 1/2 x 8 1/2 cameras Gibbet helping me. Returned to dinner & went up again at 4 P.M. staying until 7. Exposed thirty plates in all. Birds numerous. Saw or heard Yellow Warblers, Maryland H. Thrush, Herons, Swamp Sparrows, Rose Br. Grosbeaks etc. One Green Heron. Many Marsh Wrens.

Wea.

SUN. JUNE 24, 1900

Ther.

Clear & very warm.

Spent most of day in Museum writing. Dined at the Hayes. Called on the Harry Spaldens in the evening.

Wea.

MONDAY 25

Ther.

Clear & warm.

Spent most of day in Boston. Meeting of Mass. Com. at 11 but only St. Johnson & I attended it. He proposes that the Com. pledge themselves individually for \$400. each for the remainder of \$2400 / of sum necessary to buy Bangs Coal. Dined with Estabrook at Exchange Club.

Wea.

TUES. JUNE 26, 1900

Ther.

Brilliantly clear with cool S. W. breeze.

With Walter & George Deane & O. A. Balthus started at 8 a.m. for Sherman's Pond to the west of Myriadus farm & by Balthus about 2 miles up. Went by electric cars via Watertown & Boston & returned via Lexington. Nest had 5 beautiful eggs. Photographed it & took the nest & things. Pond has been changed but woods cleared off underbrush.

Wea.

WEDNESDAY 27

Ther.

Clear & hot with strong S. W. wind.

With Gilbert & Mills (the mason) I took the 8.34 a.m. train for Concord. Spent the forenoon on the Bedford shore sketching a plan for a boat house which Mills is to build for me.

After dinner Mills & Pat joined me at cabin & began excavating for a cistern. I took a walk to Pine Ridge where I found deer tracks of a buck. Apparently Pat & Hanson have both been in the area.

Wea.

THUR. JUNE 28, 1900

Ther.

A. M. clear & hot; thunder showers in P. M. & evening.

Drove to Concord at 8 A. M. Made one or two calls & transferred from Boston. Took 12 M. train for Lancaster to visit C. at Mrs. Holman's. Got to P. M. by E. R. S., Miss Holman, Miss Olm, Miss Ward & I started on two coaches for Ponunkin Hill. We drove one hour & a half under the beautiful woods for a great while. There is a threatening cloud but it is not so dark. It says a few more after we reach the house.

Wea.

FRIDAY 29

Ther.

Clear & mostly as warm as yesterday but with more of fresh air. With E. R. S. left Lancaster at 7.30. We parked at Anger & going to Weston to buy a horse & returning to Concord at 10.10. Afternoon with me & we drove first to the farm then to the cabin, where I dined. Stay with the men in P. M. Walter Deane arrived at 8.30. He walked to Davis's Hill & back over Pine Ridge after supper.

Concord

Cambridge

Wea.

SAT. JUNE 30, 1900

Ther.

Brimingly clear & much cooler with strong blowing N. W. wind.

Walter & I went to the farm at 8 A. M. & spent the forenoon walking back through the woods. Saw a Raccoon in Davis's Swamp, it hid about 30 yds. away & ran rather slowly, looking & crawling, along the swamp path out of sight. Heard very few birds. Returned to Cambridge with Walter by 6 P. M. train.

Wea.

SUN. JULY 1

Ther.

56° 7am

Clear & cool with strong N. W. wind 72° noon

To the First Church with Mr. Almy in A. M. to hear Mr. Andrews. Afterwards we all went over to the Phillips Brooks house. Saw several pairs of the newly arrived Cuban students in the college yard.

Dined with Mr. Simmons & Drury at the Hayers'. In P. M. Gilbert & I packed my trunks for the start to Jaffrey to-morrow.

Wea.

MON. JULY 2, 1900

Ther.

Brilliantly clear with light W. wind.
br, cool for the season.

Will & R. S. & Charlotte I started for
Jaffrey by the 8.00 train this morning.
Reached the Shoethicks' at 11.30 a.m.

When we had finished unpacking most
of the afternoon was still left for a walk
in the woods with E. R. S. We first
visited two pretty camps near the house,
then followed the road to the first brook
& back down the course of the brook.
After tea walked about 1/2 mile along the
road westward.

Wea.

TUESDAY 3

Ther.

Early morning clear & calm. Remains
of day cloudy with heavy S. E. wind.
Threatening rain which came on evening.
Rose early & breakfasted with E. R. S.
at 6.10. Sam took the 7.00 train back
to Cambridge & I spent the early part
of a.m. photographing. Birds numerous
or singing freely. Noted a long list
of species. Gerald Thayer called at 4 P.M.
Had two severe attacks of nose-bleed, one
about noon, the other at 6 P.M. Charlotte sent
for the doctor at Jaffrey. I lost a great
quantity of blood.

Wea.

WED. JULY 4, 1900

Ther.

Clear & warmer with strong W. wind.

Spent entire day in my room. The
doctor came on 9 a.m. I am
very weak from loss of blood but
otherwise well. Edward Emerson
called in P.M. but I did not feel
equal to seeing him.

Many birds singing close above the house,
a Hermit Thrush, a Wood Thrush, Cowbirds,
Mayflower & Yellowthroats, an Indigo Bird,
Wood Pewee, Chub, Phoebe, Red-eyed Vireo etc.

Wea.

THURSDAY 5

Ther.

Clear & still warmer with light W. wind.

Spent the day in my room.
The Deans arrived from Cambridge
this morning. The doctor feels
better reading & writing & the brain
drags slowly. The birds are a compensation.
I hear the Hermit at morning & evening
& through the day the Robin, Red-eye,
Wood Bird, Indigo Bird, Mayflower & Yellow
throat, Song Sparrow etc.

Wea.

FRI. JULY 6, 1900

Ther.

Cloudy with rather heavy rain & distant thunder in forenoon.

Spent day in house. Walter with me much of the time. C. arrived from Cambridge by the forenoon train. We took a short walk along the road at evening.

Wea.

SATURDAY 7

Ther.

Clear & hot.

91°

Walked to the brook with C. just after breakfast & to the schoolhouse with C. & the Deans at evening. The schoolhouse is said to be alive with Bats. We could hear them squeaking & rattling their claws under the clapboards but saw only them or from some one. Heard a bird song wholly new to me early this morning. It was new like a morning Warbler's but quite different.

Wea.

SUN. JULY 8, 1900

Ther..

Clear & hot. Thunder shower at 5 P.M. followed fall of 12.0 in bar pressure & high, cool W. wind.

Spent the day in the house. In P.M. C. & Walter drove over to the Emersons. Albert & Gerald Thayer called just as they were starting off. My hip is troubling me again & I have had to discontinue my daily walks.

Wea.

MONDAY 9

Ther.

Clear & cool with strong W. wind.

Spent the day in the house. Gilbert arrived at noon with "Sylvia" a man that I have hired of Little (of Concord) for the summer. C. & I took a drive around the four mile square after supper. The evening was cool & beautiful. Heard 2 Wood Thrushes, a Hermit & a vesper sparrow warbler all in full song.

Wea.

SAT. JULY 14, 1900

Ther.

Clear & slightly warmer.

Spent the forenoon over the cabin planning for a new steam cabin but failing to accomplish much or even to select the location. Took the 12.35 train for Cambridge where I spent 2 hours at home. Then went to Cohasset by the 3.10 P.M. train, I found Manning and me at the station & Margaret met us at Cohasset. I saw a Mrs. Manning, a Miss Hill & Mrs. Gail friends of Margaret's. Also a black dog across pond in evening.

Wea.

SUNDAY 15

Ther.

Sunny but hazy. Nearly clear cabin all day - decidedly warmer.

Just after breakfast Frank took me through his 8 acres of woods, mostly red cedars with some good oaks & red maples & some (well) fringed willows. Saw white throats (Hollins) for first time. Heard 21 species of birds in these woods.

To boat house at 11 meeting Wm. Hall Jones, a Mr. Reed & other friends of Frank's. Home in bathing beach where Frank talked.

Spent P.M. evening on horse collecting. Looked at stars through telescope. Cool except this.

Cohasset - Concord - Joffrey N.H.

Wea.

MON. JULY 16, 1900

Ther.

Clear & hot with breezy S.W. wind.

Took 8.20 a.m. train to Boston, then by 10.15 train to W. Bedford. After seeing Miller & Pat who were beginning to lay the foundations for the new boat house I crossed the river & found Gilbert in the cabin. Spent the afternoon there & on the W. Bedford shore. At evening walked to the Boston meadows. Much more of both kinds bringing fresh & warm. A hot but not uncomfortable night.

Wea.

TUESDAY 17

Ther.

98°/°

Concord, 3 P.M.

Clear with strong S.W. wind. One of the hottest days for many years the papers say. At the cabin where I spent most of the forenoon, however, we were not uncomfortable & at times there was a delicious breeze. The birds sang like bells.

Drove to Concord after dinner & took the 3.40 train to Joffrey where Walter met me at the station with "Evelyn" in my buggy. A pretty evening. Heard a long whistling.

Jaffrey.

Wea.

WED. JULY 18, 1900

Ther.

Clear & much cooler after a brisk shower which passed just after dinner.

Drove to E. Jaffrey to meet E. K. S. & Mrs. Simmons who arrived by the 10.30 a.m. train. I drove Mrs. S. up in my buggy & later in the afternoon she & I drove to Thunder Pond & back by way of the lake. Home then home in good time.

Wea.

THURSDAY 19

Ther.

Clear & cool with fresh N.W. wind. In a.m. Walter & I walked to the bog where we received under some hawthorns on a hillside for our brown or raven. Saw a 2 Black Curlew, Black-throated Green & Canadian Warbler & heard an American Warbler singing.

In P.M. drove to the Emersons where we found Mrs. Emerson, her two daughters, & Miss Marion Thoms. They were as in a party walk down through a fine green pasture. Found them singing in the woods at sundown at evening.

Jaffrey

Wea.

FRI. JULY 20, 1900

Ther.

Clear in a.m. Clouds gathering in P.M. with light E. wind.

Spent the forenoon in my room writing. In P.M. drove Mrs. Simmons around Gelmer Pond.

Wea.

SATURDAY 21

Ther.

Cloudy most of the day with heavy shower about noon. Rather hot.

Spent most of day in my room writing & making plans for a stone cabin at Concord. At evening walked to the school house with Mrs. Simmons, E.R.S., Walter & Maria Dean. Saw the ~~birds~~ come out of the schoolhouse where they found the day under the loose clapboards.

Jaffrey

Concord.

Wea.

SUN. JULY 22, 1900

Ther.

Brilliantly clear with light E. wind
& long intervals of deep calm. Rather warm.
Rose at 5 a.m. taking the car
Hauled and following the road westward
to the schoolhouse, stopping a down place
returning to breakfast at 8.30. Birds
singing freely.

Spent forenoon writing. E. R. S. went up
Hemlock with the Gomers.

In P.M. Walter & I drove over to Dublin
taking tea with Arthur Thayer & his family
& getting back at 8 P.M.

Wea.

MONDAY 23

Ther.

Clear & hot with light S. W. wind.

Left Jaffrey at 7.01 a.m.,
reached Concord at 9 a.m. Pleasure
met me at Station with Charlie. We
drove first to Barrett farm where I
heard 3 Towhees singing at once.

Thence to cabin. Found new boat house
walls about half way up; Canal to
boat house nearly completed.

Spent P.M. near cabin. Song & Swamp
Sparrows & Red-wings singing. At least
500 Swallows flying over Holden's meadow
at evening. Fox barking at 8.30 P.M.

Concord.

Wea.

TUES. JULY 24, 1900

Ther.

Slight rain at day break. Day cleared
soon after sunrise. Rest of day warm
with light S. to S. W. wind.

Took a short walk at 6 a.m. - to
Bear Park & back over Ball's Hill
One bird singing was Song & Swamp Sparrows,
Redwings, a Minuteman a Wood Pewee &
a Rose-breasted Grosbeak & 2 Quail.
Spent day on Ball's Hill & over on here
Walked to Davis's Hill in P.M. Saw
deer tracks a few days old on a sandy place
in the Holden meadow. A Solitary Vireo
singing lustily on Ball's Hill this forenoon.

Wea.

WEDNESDAY 25

Ther.

A.M. clear with violent S. W. wind.

P.M. cloudy with heavy thunder storm
followed by light rain all night.

Spent forenoon on Ball's Hill improving
the men at work on the boat house &
laying plans for the new cabin.
Drove to Concord in P.M. & took 3.40
train for Jaffrey where Walter met
me at the station. We drove to the
Shattuck's in a steady but light rain
which followed the forenoon.

Wea.

THUR. JULY 26, 1900

Ther.

Cloudy with light showers at intervals and very heavy rain in the evening.

Spent most of the day at the house taking a walk to the brook with Walter just after dinner. E. R. S. drove over to the Simmons in the forenoon & brought Mrs. E. back to dinner. Mrs. Simmons & Ellen called in P.M. Walter & I went to the Kellogs' camp after supper to her photographs. A Hermit saw many other whistlers in the woods.

Wea.

FRIDAY 27

Ther.

Brilliantly clear with ~~the~~ warm wind.

Walter & I drove around Thoreau's Pond in A.M. I taking six or seven photographs, he collecting over a box of specimens.

In P.M. took Mrs. Simmons on a short drive.

Wea.

SAT. JULY 28, 1900

Ther.

Clear & cool with light W. winds & intervals of dead calm.

In A.M. was driven by E. R. S. to the Heaths' near Gilman Pond. Walter met me here & took me to some fine old beech & hemlock woods where we saw a ♀ Hairy Woodpecker. Came back across the fields. In P.M. drove Mrs. Simmons half around Thoreau's Pond.

Wea.

SUNDAY 29

Ther.

Clear and warmer.

In P.M. drove E. R. S. around Thoreau's Pond. Heard several Herons singing.

Walter & I spent most of the forenoon at Heath's near Gilman Pond. He followed the course of the brook & I dug a few plants. We afterwards drove around the pond.

Wea.

MON. JULY 30, 1900

Ther.

Cloudy with several light showers.

Starting at 9 a.m. I drove E.R.S. to the Svenssons & with them we continued on up the road to the Mountain House. Mrs. Gage, Ellen Svensson & I dined there while the others walked to the Plateau where they lunched. In the spruce woods behind the house I found fresh works of a Prairie Woodpecker. Heard singing a Hermit, an Olive-back, a Junco, a Chickadee, a D. maculosa etc. Returned to Stronachs in late P.M.

Wea.

TUESDAY 31

Ther.

Clear & cool.

The drive up the mountain yesterday brought on a rather severe attack of my old bladder trouble & I spent the day very quietly reading & writing in my room most of an hour. Walter was also ill & confined to his room.

Wea.

WED. AUG. 1, 1900

Ther.

Clear with cool N.W. wind.

Took the 7 a.m. A. covered wagon Peterson was at the station. We drove first to Auger's mill where I bought some chestnut & oak planks for the new cabin; thence to Boll's Hill where I found Gilbert awaiting me. The new boat house was nearly completed.

Wea.

THURSDAY 2

Ther.

Brilliantly clear & deliciously cool.

Spent most of the day at the cabin and near the new boat house across the river where the men were at work on the new canal.

Purdie arrived by the 5.30 P.M. train & we at once started out for a walk going across the Haden meadows to David's Hill & returning by way of Pine Ridge & Pine Point.

Wea.

FRI. AUG. 3, 1900

Ther.

Clear & cool with strong N.E. wind.

Spent most of the forenoon across the river where the men were putting the finishing touches on the boat house.

In the afternoon Purdie took me into the Halls Hill swamp to see a quantity of Virginia Chain Ferns which he has just found there. This species as well as *Aspidium Thelypteris* seems to be common here as well as in Davis's Swamp. After supper we walked to the Barren meadows.

Wea.

SATURDAY 4

Ther.

Brilliantly clear with light N.E. to W. winds. Morning & evening cool. We had a fine air breakfast trip.

Spent the entire day near the cabin and at the new boat house.

After supper Purdie & I walked along the river path to Pine Park.

Just after breakfast there Great Blue Herons appeared overhead in column & landed in circles on the meadows later to many Egrets.

Wea.

SUN. AUG. 5, 1900

Ther.

Morning clear, clouds gathering in the late afternoon.

Purdie & I spent most of the morning in the woods on Hedges Hill. They were alive with small birds among which we detected 2 Black-brown Kinglets. In P.M. we went up river in the day with Gilbert & brought back very few fishing canoes which have been stored on the Hedges.

Wea.

MONDAY 6

Ther.

Clear & oppressively hot with light S.W. wind.

Spent the day at the cabin where all the men were at work, mills finishing the cabin, the carpenter repairing the old canoe pit, Poe & Houser digging one & enlarging the Horse Goat pit.

At evening walked to the Barren meadows where Bobolinks, Red wings & Indigos were feeding to waste. Purdie left me this evening.

Wea.

TUES. AUG. 7, 1900

Ther.

Cloudy with light E. wind and
frequent light showers.

Spent most of the day in or
near the cabin superintending the
men at work on the Bone Hill.

In the afternoon we found several
large heaps of brush at evening I
found under some glancing hole rocks
a hole & living the King's Snake

Wea.

WEDNESDAY 8

Ther.

Cloudy with occasional light showers. A. Allen
... with light S.W. wind. Heavy rain
... last night

Spent the forenoon near the cabin.
In the afternoon walked to Pine Ridge
& the Bonnet wooded woods. After
supper strolled around the E. end of
Bone Hill. The men worked on the
new cause path & were preparing
for beginning work on the new cabin.

Wea.

THUR. AUG. 9, 1900

Ther.

Clear & hot.

90° - 3 P.M. Concord

Spent the forenoon with the & Hanson
making a specimen sample of a road
underneath across the Bonnet woods.

Mills & John Flannery began the excavation
on the hillside for the new cabin.

Peterson was towing Christmas logs down
from the Bonnet woods.

Left the cabin by boat at 2 P.M. Gilbert
raced us to Concord where I took 3.48 train
for E. Jeffery where E. R. S. met & drove me to the
Hawthorne.

Wea.

FRIDAY 10

Ther.

Clear in early morning. Cloudy later
with light showers.

Just after breakfast I walked to the
old log house & saw them for nearly an
hour, smelling my pipe. It was cool
& quite under the fine old trees.
E. R. S. wrote up Monographs this morning
with the Emersons to camp for a
couple of nights. I spent most
of the day in my room. The Humes on
at home very late I still hear Redwings
& Indigo Birds

Wea.

SAT. AUG. 11, 1900

Ther.

Sunny but hot with strong S.W. wind.
Intensely hot.

After breakfast walked to the
beautiful beach woods just beyond
the first brook. It was especially
cool & quiet under the firm old
trees.

Drove Mrs. Sumner past Round
Point in the afternoon.

Wea.

SUNDAY 12

Ther.

Cloudy & cool with light rain in
the evening.

Wea.

MON. AUG. 13, 1900

Ther.

Cloudy with N.E. wind and heavy
rain most of the day.

Visited the swamp beyond the firm
woods in the forenoon & dug a number
of ferns & some fine grass plants.

Saw a Canadian Warbler feeding a brood
of young.

Spent most of the afternoon reading aloud
with Mrs. Sumner.

The Deans returned this evening after an
absence of more than a week at Cambridge.

Wea.

TUESDAY 14

Ther.

Forenoon cloudy; clearing in P.M.

In A.M. took a rather long walk
with Walter in the back & firm woods
beyond the first brook. Dug a few
ferns & a small fern. Heard a
Red-shouldered Hawk scream.

Wea.

WED. AUG. 15, 1900

Ther.

Cloudy with heavy rain from 10 a.m. into & through the following night. In the early forenoon Walter & I walked to the pine woods behind the Kelly Camp. I dug there a number of young yew & balsams to take to Concord to - unseason.

Spent most of the afternoon writing my annual report for the Mass. Camp. Inst.

Wea.

THURSDAY 16

Ther.

Forenoon cloudy with a succession of heavy showers. The last & most violent at noon. The sky cleared soon afterwards & the afternoon was sunny & warm.

Left Jaffrey by 7.01 a.m. train with E. R. S. She got off at Fitchburg to visit C. Mrs. De Jersey & Susan Hager at Lancaster. I came to Concord where Gilbert & Theresa met me. We drove to Red Bridge where I paddled down in Balls Hill on the river. Home to the farm in P.M. & set out a lot of flowers at Pulpit Rock.

Wea.

FRI. AUG. 17, 1900

Ther.

Sunny & warm with several light showers lasting only a few minutes each.

Spent the day with the men who were working on the new cabin, Mills finishing the eastern, the others digging & working away dirt etc. The carpenter making a conductor from a pine trunk. At evening walked to the Foster meadow & thence to Pine Ridge. The air was cool the meadows luxuriantly beautiful.

Wea.

SATURDAY 18

Ther.

Clear & warm with light variable winds.

Spent the forenoon at Ball's Hill. The men worked chiefly on the roofing & troughs for the eastern behind the old cabin. Started for Concord at 2.15 P.M. driving a big bay horse called Nancy which I have decided to buy for the farm work.

Took the 3.40 P.M. train for Jaffrey. Walter met me at E. R. S. station. E. R. S. returned to Concord.

Wea.

SUN. AUG. 19, 1900

Ther.

Brilliantly clear with light N.W. wind,
a deliciously cool day.

In the forenoon Walter & I explored
some pine woods beyond the school house.
They were pretty but uninteresting as
far as birds & plants were concerned.
Shortly after dinner Madame the French
lady was found to have been very busy
morning. Five or six of us started to search
for her. Walter & I took the main road
& were in driving time with the Japanese
boy, Mr. & E.R.S. took her up to the women's room.

Wea.

MONDAY 20

Ther.

Clear & cool with light W. winds.

In the forenoon I took two $6\frac{1}{2} \times 8\frac{1}{2}$
photographs of the sugar house.
Walter & I then walked to Spaulding.
I returned along the beach. Found
a white pine of immense size & unique
habit of growth with several large, twisted
upright trunks.

Wea.

TUES. AUG. 21, 1900

Ther.

Clear & cool with light W. wind.

In A.M. Walter & I drove around
Thunder Pond. I took 3 $6\frac{1}{2} \times 8\frac{1}{2}$
& 4 4×5 photographs in the park.

In P.M. we drove past Silver Pond
& visited a Mr. Baker who lives in
a pretty & very old house at the
end of a grassy lane. I took a few
photographs there. There were lots of
birds about the house. Bluebirds, Goldfinches,
cardinal birds etc. A fine sunset as we were returning.

Wea.

WEDNESDAY 22

Ther.

Clear & cool.

Spent A.M. writing. At noon
Walter, E.R.S. & I drove over
to the business where we
dined & home. The afternoon
meeting, in addition to the family,
Dr. Ayer & Mrs. Bliss. The
funeral services were well
attended. The whole is one of the most
unhappy and sad of the family.

Wea.

THUR. AUG. 23, 1900

Ther.

Clear & cool.

I spent most of the day at or near the house not feeling well. Walter in A. M. drove E. R. S. to the Butler farm.

Later in the afternoon I walked to the first brook & explored the $6\frac{1}{2} \times 8\frac{1}{2}$ plates.

Wea.

FRIDAY 24

Ther.

Cloudy with light rain most of the afternoon & a perfect deluge between 8 & 9 P. M.

Spent A. M. in my room. E. R. S. came up the mountain with the Grubbers & returned descended at evening. Walter & I spent the afternoon in the woods beyond the bogus house getting plants. I dug a number of fine young *P. borealis* *Staphylea trifolia*. Birds very few.

Wea.

SAT. AUG. 25, 1900

Ther.

Clear & warm with light S. wind.

Spent A. M. in the woods beyond the bogus house with Walter getting a lot of ferns to send to Conrad to-morrow. Heard a Red eye calling & saw 2 Chickadees. The country seems to be almost completely drained of birds. About 11:30 A. M. arrived at noon & took dinner with us. In P. M. he, Walter & I walked to the brook. A *Boar* Owl hooting was the hour in about 100 yards.

Wea.

SUNDAY 26

Ther.

Clear & intensely hot with light S. wind.

Spent most of A. M. photographing taking the 4 & 5 corners & visiting the bogus house & the first brook.

Wrote letters in P. M. At evening there was a rather heavy flight of night hawks 21 birds passing Shattuck's which others were seen by E. R. S. at Cullen's on the hill. Shortly after midnight the Boar Owl hooted on. He hooted for nearly half an hour.

Wea.

MON. AUG. 27, 1900

Ther.

Clear, hot & very sultry with almost no wind.

I packed my things yesterday afternoon & left Joffrey for good by the 7 a.m. train on which I found Mr. Gilson with whom I had a pleasant talk.

On reaching Concord I drove to Father's Hotel where I found Gilbert who had just arrived with Sylvia. We drove to Boals' Hill together. Spent the day with them. Walked to Pine Ridge to plant some ferns on evening.

Wea.

TUESDAY 28

Ther.

A.M. cloudy; P.M. clear. A light E. wind. Cooler than yesterday but rather sultry.

Spent the entire day evening the work at the new cabin. I had Miss Blaine (California) Pat & John & Henry & Hanson besides Plerson. We built the kitchen & part of the chimney. The outer boarding is nearly finished & the floor timbers in. Walked to the Barrett workshop at evening.

Wea.

WED. AUG. 29, 1900

Ther.

A.M. cloudy with shower but brisk shower. P.M. sunny with cool S.E. wind.

Drove to the farm just after breakfast & let out a lot of weeds at Poplar Rock. Spent most of A.M. near cabin. At 3 P.M. took electric car at W. Bedford for Cambridge, where I had my hair cut. Reached home at 5 P.M. and found C. there. Gilbert drove down the big mare Nancy arriving at 6 P.M.

Wea.

THURSDAY 30

Ther.

X S.A.M.

Clear & warm.

Starting at 9 a.m. I drove C. to Arlington Heights where I left her to call on Sarah Dearborn.

I spent most of the day in the museum writing letters. Also planted some things from Joffrey in wild garden. The Deans (Walter & Margie) took tea with C. & me on the back piazza. I spent the whole evening. Her Auntie in future black hair now.

Wea.

FRI. AUG. 31, 1900

Ther.

Clear with cool E. wind.

Spent most of day in home
& museum. Long talk with C. 5-5.30
a.m. Walter called in forenoon.
In P.m. drove C. around Mt. Auburn
for an hour & in had another
long & sad talk.
Grandma came at 7 P.m. to
spend night.

Wea.

SAT. SEPT. 1

Ther

Clear & warm but yet a
comfortable day.
Another talk with C. 5-7 a.m.
Then breakfast. Then with C.
& Grandma I drove to Porton &
took train to Boston. Met
Will & Allen Stone at North
Union Station & took 9 a.m.
train for Portland. Reached
Bethel at 5.15. Mr. & Mrs.
Gehring met us at station &
we all went to their house for
the night.

Wea.

SUN. SEPT. 2, 1900

Ther.

Clear & hot with S. wind 90°

After breakfast walked about
the place with Dr. Gehring looking at
his shrubs.

At 10.30 a.m. the Stones & I started
for Lake in open carriage with a good
pair of horses & George Chapman as
driver. Dined at Poplar Tavern &
stopped at Green Angel Falls & election
to photograph. Reached Bethel about
7 P.m.

Wea.

MONDAY 3

Ther.

Clear; warm; very heavy & sunny.
A thunder storm at 8 P.m.
Took steam up lake at 8.30 with
hired boat in tow.
When we reached Pine Point an
Eagle, 2 Sheldrake & a Kingfisher
flew out of the boat cov. Spent
the rest of day getting and things
in order - a busy talk.
George Fairbank joined us at
4 P.m. Sailing up in his canoe.

Wea.

TUES. SEPT. 4, 1900

Ther.

Brilliantly clear & cooler with
fresh W. to N.W. wind.

Spent most of the day working
on the ladder. George Collins
was in his canoe.

In the afternoon Jack crossed
to & paddled through Bernard's
Pond, where we saw 2 Eagles,
2 Black Ducks & 4 Wood Ducks.
A brilliant sunset & a calm
beautiful unclouded night.

Wea.

WEDNESDAY 5

Ther.

Clear & warm with strong S.W. wind.

Geoff arrived by steamer at 8 a.m.
At noon the Steamer, Geo. Farnsworth &
started on a trip up the Yellow River
with Jim as guide. Took the big boat &
2 sailing canoes. With them I started
the canoe party of the way to the
lower boundary where that I had met
us with 2 canoes. He took us to his
house, the canoe & boat to his
cabin.

Wea.

THUR. SEPT. 6, 1900

Ther.

Cloudy most of the day with a
mist, thick shower at 8 a.m. & 2
others in late P.M. Heavy S.W. wind.
Left 7 boats at 7.30 A.M. Paddled
hardly for first 5 miles stopping to
take photographs at several places.
Lunched in the boats under Diamond Falls.
Two heavy showers overtook us near
Pulpit Rock. Saw many large birds
Eagles, Ospreys, Herons, 2 Wood. Kingbirds,
7 or 8 Whistlers, 14 Hutton Yellow-bills etc.
Fine sunset as we entered Lake to camp.

Wea.

FRIDAY 7

Ther.

Brilliantly clear & cooler with light
N. to N.W. wind.

Spent a.m. rigging a new
canoe trail. To Moon Point with
George Farnsworth at evening. Placed
him near the end of the Point &
went further along the shore myself.
About 30 or 40 Black Ducks came in
I had no shot but George fired
a number killing one duck.
The evening was perfect. Saw Herons &
knows Snipe.

Wea.

SAT. SEPT. 8, 1900

Ther.

Sunny but very hazy. Most of A.M.
Calm. A fresh S.W. wind in P.M.

Spent most of day on the boat
writing. In P.M. took a walk
with the Stones to Oggs's Point.
Very little life in the woods - only
a few Red Squirrels. Found a fine
fresh Moose dung within 150 yds of
camp near our boat cover.
To Moose Pt. at evening with George.
About 30 Ducks, mostly Black came in.
George fired & missed several times.

Wea.

SUNDAY 9

Ther.

Clear & cool with strong to light
N.W. wind.

Sailed off the Point, walked to
Spelman's Pt. (in P.M.) and went
to Moose Pt. with the Stones (without
a gun) at evening. About 20
Black Ducks came in. There
were also several Hens & we
heard a few Snipe. As on
the last trip, even so a night hawk
came skimming about low over
the marsh.
Took a few photographs in the eve-
ning in the moonlight.

Wea.

MON. SEPT. 10, 1900

Ther.

Cloudy most of the day with long
periods of calm.

George Kamsworth left us to return to
Bethel at 9 A.M. At 11 A.M. the
Stones & I crossed to Moose Point
where we took a number of photographs.
I got a very good picture of 2 Ring-necked
& a Great Sandpiper.
At evening the Stones & I again crossed to
Moose Pt. I took my gun but had no Hens.
Less than a dozen Ducks came in. Hens &
Hairy Woodpecker were there. They shot at &
wounded a Great Blue Heron.

Wea.

TUESDAY 11

Ther.

Cloudy with steady rain all
day & light E. winds.

Spent the entire day writing
letters & in my journal.

Wea.

WED. SEPT. 12, 1900

Ther.

Cloudy with a violent gale starting at about 10 A.M. & blowing from the S.W. until noon when it changed to N.W. Some of the small boats dropped their moorings & ran west nearly ashore. The house boat rode it out well but her awning was blown & torn.

We spent most of the day looking after the matters. It was an exciting time.

Wea.

THURSDAY 13

Ther.

A gray day with light N.W. to S.W. winds, the water & sky of nearly the same color.

Spent most of the day on the house boat writing letters a long one to C. Consuming most of the afternoon.

Immediately after dinner I walked to the Mason logging works with the Starnes. These woods sound lonesome & gloomy.

Wea.

FRI. SEPT. 14, 1900

Ther.

Sunny, the sky half-filled with cloud masses driven rapidly before the strong N.W. wind. Sunset very fine. Warm at midday cool at evening & coming.

The Starnes & I with Jim left camp at 9 A.M., they in the big boat, I in the little canoe, & spent the day down the Androscoggin visiting several & Curtis Meadows, taking a number of photos & seeing many fine birds. Met Dr. Dutton & Harry Russell off. Leonard's Pond. Back to camp by the light.

Wea.

SATURDAY 15

Ther.

Clear & calm with clouds gathering late in P.M.

We left camp at 9 A.M. The Starnes & Jim in the big boat, I in the little canoe. Took the E. shore & followed it closely stopping several times to photograph. Saw a Fox hunting mice in Mosby Cove & several Skunk tracks elsewhere. Reached the head of Lytle Cove at noon & anchored there on the sand beach. Chilled at Mettallum del. on the return & the Duttons, Briggs & back to camp in their fine skiffs.

Wea.

SUN. SEPT. 16, 1900

Ther.

Cloudy with light easterly winds &
faint showers in the early evening.

Spent the forenoon writing letters.
There was a Pied-billed Grebe
swimming close to the rocks at
the end of the Point in previous
places for their species to harbor.

In late P.M. paddled to Whales Head.
Crossed the straits. The water
was nearly dead calm then.

Wea.

MONDAY 17

Ther.

Cloudy in A.M. clearing in P.M.
with rather heavy rain from 8-9 P.M.

Spent forenoon on home boat &
at camp. In P.M. went to & up
Rapid River with the Stroms. The
water was low & the current very
strong but we got to Cedar Swamp.
Saw 4 Sheldons & one Eagle along the
river, a large Rabbit on the shore.
Took several sunset pictures on the
way back to camp.

Wea.

TUES. SEPT. 18, 1900

Ther.

Sunny, the sky filled with cloud
masses, a strong N.W. wind.

The water was so rough that we were
practically in pairs and on the Point all day.
I wrote in A.M. & in P.M. tried
the causes of their storm sails just
off the end of the Point. The sea was
high & the whole boat was capped.
Saw a Semipalm Plover, a Panda Warbler
& Maryland H. Wren & 2 Black-thr. Green
Warblers at the boat corner.

Wea.

WEDNESDAY 19

Ther.

Brilliantly clear, absolutely cloudless,
warm with light S. to S.E. winds &
abundance of calm.

Packed everything on the home boat
this morning, closed & locked the
camp, warped the boat out to the
outer mooring & spent the day
there waiting for the Strom which
took us in tow at 6 P.M. & got
us to Lander's at 8 P.M. where
we spent the night on the boat.
A small mixed flock of Waxwings
& one P. a-bird on the Point this evening.

Wea.

THUR. SEPT. 20, 1900

Ther.

Cloudy with light rain all day,

Early this morning the steam
towed us to Upton where we made
the horse boat fast to the bank at
Pond's bend. It began raining
soon after this. We built a fire
on shore & sat by it under umbrellas
much of the time. Took several
photographs of the boat.

Wea.

FRIDAY 21

Ther.

Early morning cloudy. Part of day clear
& warm up to 4 P.M. when a heavy
thunder storm broke. This was
followed by other storms during the evening.
Started up Cambridge River in the
2 small boats at 8 A.M. Passed
flock 16 Great Auks on flat near horse
bend. Up river took photos. Saw
1 Black Duck, 2 Pheasants, a Wilson's
Snipe & many small birds. Photographed
Snipe. Shave balls just as we
reached Jim's place on our return.

Wea.

SAT. SEPT. 22, 1900

Ther.

Cloudy most of the forenoon with light
showers; clearing in P.M. with a glorious
sunset.

Left the horse boat at 8 A.M. & went
to Lakeside by boat. George Chapman had
not appeared so we got a team of Chauden
& started for Boston at 10 A.M. Stopped to
photograph & reached Gaston by noon taking
refuge from the rain & eating lunch in a barn
on the farm just below Shocks'. Then photographing
in P.M. Reached Milford just before dark.
I went to the Gehring's, the others to the hotel.

Wea.

SUNDAY 23

Ther.

Cloudy most of the day with occasional
bursts of sunshine. A fine sunset.

The others went through to Boston
to-day. I spent the A.M. writing
letters. In P.M. took a walk with
B. Gehring & Mr. Potter (of Cleveland O.)
in the woods below the house.

Three White-crowned Sparrows all at once.
& a Yellow Palm Warbler spent the
day in the thicket around the house.

Wea.

MON. SEPT. 24, 1900

Ther.

Clear & cool with a fine sunset.

In A. M. drove around Sings Pond with Mr. Potter (of Cleveland) one of Dr. Gehring's patients, who took several photographs. Saw only a few birds. C. arrived by 4.30 P. M. train. I went her at Hoboken & on down to Paradise Hill to see the sunset.

Wea.

TUESDAY 25

Ther.

Clear & warmer.

In A. M. repeated the drive of yesterday, this time with C. The Pond yesterday was wild & white-capped, to-day mostly calm. Saw a great many birds, mostly Sparrows. A White-Crown & a Myrtle Warbler sang fully early this morning near the house.

In P. M. we had a long talk over Dr. G. about my health. He decided that I go to home for a while.

Wea.

WED. SEPT. 26, 1900

Ther.

Clear & warm with light S. wind.

C. & I started for Boston at 9.05 a.m. Dr. Gehring accompanied us as far as Portland. The day was perfect & the country beautiful but there was little autumn coloring below Portland save on the little marshes where the russet sedges contrasted with the blood red patches of moss. On reaching Boston we went to the Parker House for the night.

Wea.

THURSDAY 27

Ther.

Cloudy most of the day.

Went to Cambridge in the early a.m. and returned to Boston at 5 P. M. Spending the day at my museum, where I found Gilbert & joined E. R. S. who went in town to consult with C. The garden looked pretty & late & there were no birds except Goldfinches. Botchelder came in P. M. to talk over the A. O. U. meeting. Took C. to Keith's in the evening. He saw a wonderful red house, "Popinwin".

Wea.

FRI. SEPT. 28, 1900

Ther.

Cloudy & damp.

Gave up our room at Parker's this morning. C. went to Cambridge for the day & night. I met Dr. Woodworth at Outram Bangs's to conclude the arrangements for acquiring & transferring the latter collection of mammals to the M.C.Z. We spent most of the day there. At 5.30 P.M. I went to the Cummings' where I dined & spent the night.

Wea.

SATURDAY 29

Ther.

Cloudy & damp.

Spent day in Boston. Called at Dexter's, ordered an overcoat at Linth's, met Miss E.W. Follen by chance at Doll & Richards.

Took 4.47 train for Needham to ~~stay~~ stay at the Haywards on Sunday. Aunt Mary, Roland, Mary & Harry Cunningham & Miss Hammond came there & I had a warm welcome for the evening talking.

Wea.

SUN. SEPT. 30, 1900

Ther.

Cloudy with occasional bursts of drizzle & several light showers. Rather heavy rain last night.

In A.M. drove with Roland around Houghs Pond to Park of Pond where some large ducks were gathering & feeding in front of the Houghs Pond.

In P.M. we walked to the pasture & up the road. The woods on the hill look as if killed by fire the result of the winter drought.

Wea.

MON. OCT. 1

Ther.

Clear & warm.

Back to Cambridge at 9 A.M. Found Walter at Museum. Woodworth & Bangs called in A.M. and writing in evening. Dined at the Adams & spent night there.

Concord.

Wea.

TUES. OCT. 2, 1900

Ther.

Morning cloudy; afternoon clear with heavy E. wind.

Spent A.M. at Museum. To Concord with Gilbert. By 1.47 train from Boston where I went at once to order a lot of shingles at Messinger & Jones. Found Pat at cabin. Peterson arrived shortly. Everything all right & woods looking well in spite of drought. Walked to Pine Park & back 4' out in P.M.

Wea.

WEDNESDAY 3

Ther.

Cloudy, calm, mild.

Drove to the farm in A.M. The woods, orchards & fields look well in spite of the drought. Returned to cabin at 11. Met Mr. & Mrs. Pierce of New York. They had been to the cabin to see my wild garden & to get advice as to how to water one. Karl Ekstrom & Karl Engstrom came down at noon. Benson walked on the Beech Mountain in P.M.

Wea.

THUR. OCT. 4, 1900

Ther.

Early morning foggy; forenoon cloudy; afternoon clear & warm.

Spent A.M. in Holden woods with Peterson cutting out a new wood road. Benson, Hansen & Pat's boy joining men at work on the roadways in the Beech Mountain. Karl Ekstrom & Karl Engstrom began work on the new cabin cutting out the various etc. To Beech Mountain & Holden woods in P.M.

Wea.

FRIDAY 5

Ther.

Early morning foggy. Remainder of day clear & uncomfortably warm.

Drove to the farm directly after breakfast. Also called on Mrs. Ritchie & at Mr. Howe's.

On returning with a lot of letters. In P.M. went to Holden's Hill & cleared a lot of trees along the line of the wood road I am making there.

Wea.

SAT. OCT. 6, 1900

Ther.

Cloudy with E. wind & fine rain at evening.

To farm at 8 A.M. Called on Mr. Horn & had a talk with him about the school house. At the farm supervised the building of a kafford in the barn.

In P.M. worked on the wood roads in the Bonnell Meadow & Golden Hill woods.

Wea.

SUNDAY 7

Ther.

Cloudy with fine driving rain. Rain more than a dense mist - all day.

In A.M. walked to Davis's Hill, in P.M. through the Blakemore & Golden Hill woods. Found them for cutting & collected the birds & squirrels. Red Squirrels are numerous this autumn; Chipmunks fairly so. I have seen but few Geays.

Mrs. John Barrett died at E. Lexington to-day as the result of an operation for appendicitis performed ten days ago.

Wea.

MON. OCT. 8, 1900

Ther.

Sunny with drifting clouds, sunset showers in P.M. and heavy continuous rain after dark. Oppressively warm with light S.W. wind.

Spent the entire day in the Bonnell Meadows where I had Benson, Hansen, Jimmy Flannery & Peterson at work. We nearly completed the new roadway. Saw a flock of 25 Black Ducks, an Osprey, a Marsh Hawk & 2 Herring Gulls.

Wea.

TUESDAY 9

Ther.

Rained hard all last night & through the whole of to-day & this evening it is heavily pouring. The wind was N.E. all day & strong in the P.M.

Spent most of the day in the new cabin where the carpenters were busy at work on the shutters. The oak window & door frames were put in yesterday.

In P.M. walked to the Bonnell Meadows & the E. end of Bonnell Hill.

Wea.

WED. OCT. 10, 1900

Ther.

Cloudy with violent N. E. wind. Showers in A. M., heavy rain in late P. M. & evening.

Took the 12.34 train for Boston where I attended a meeting of the Directors of the Audubon Society. Also called on Roland Hazard & dined with Jim Melvin at the Exchange Club. Came out in the car with Mrs. Dodge & Miss Boris Olsen. Spent night in the Alhambra!

Wea.

THURSDAY 11

Ther.

Blue sky flecked with clouds at day break. Cloudy rest of day with heavy cold N. W. wind & frequent showers.

Took 8.34 A. M. train for W. Chippewa. Soon after I reached the cabin Purdie came from Concord to spend the day & night with me. Only one carpenter, Jimmy Flannery worked. There was a gorgeous sunset.

Wea.

FRI. OCT. 12, 1900

Ther.

Brilliantly clear with light W. wind. Very warm. Sky cloudy at sunset.

Spent the day in the Barren meadow woods with Petersen, Hansen, Jimmy & Frank the best man whom I have hired for a winter. He worked at the wood sheds & nearly finished cutting out the trees. I got seven chestnut logs for the new cabin & found them down with my little crane. Met Raymond Erickson. Purdie left at 2 P. M. & went to Boston.

Wea.

SATURDAY 13

Ther.

Cloudy with E. wind.

In A. M. went to Barren meadow & Davis Hill. Took 12.35 train to Cambridge to attend meeting of A. S. N. Committee at 3 P. M. Present Purdie, & Brewster. Went to Lawrence by 3 P. M. train. C. met me at Malone & we drove to Miss Holman's. Took a walk in the woods after supper. Miss Oliva, Miss Christen & Miss Ward. The only boarders besides ourselves.

Wea.

SUN. OCT. 14, 1900

Ther.

N.E. rain storm with violent wind.

Spent A.M. in room. Lunched at John Mayers at 1 P.M. Mr. Mayers showed me his collection of mammals & N.A. Birds & his aviary. In the latter he has a Golden Eagle, 3 young Bald Eagles, 3 Great Horned Owls, 3 Screech Owls, a Raven, 2 Crows & a Putter. The last eats frogs & mice. C. talked with Mrs. Mayers. We walked to the river again this evening.

Wea.

MONDAY 15

Ther.

A.M. cloudy. P.M. clear & very warm.

C. & I drove to Pommequin Hill in A.M. Saw a Pileated Jay & Horned Lark, a Green Tanager, large flock of Robins, flocks of about 12 Cedar Birds, Jays, Crows etc.

In P.M. with Miss Loring at 3.15 & drove with her & C. to Bolton.

It was deliciously warm. The foliage is brilliant in spots.

C. & I walked to river again in evening.

Wea.

TUES. OCT. 16, 1900

Ther.

Brilliantly clear & very warm. 76° up to 4 P.M. when there was a violent squall. After this it was much calmer with heavy rain through the evening. In A.M. C. & I drove with Miss Loring to Fair Point & around Pommequin Hill. Saw lots of birds. We had a Sapsucker. The foliage was beautiful - at its best I think.

Took 3.15 train for Belmont reaching the cabin at 4.30 P.M.

Wea.

WEDNESDAY 17

Ther.

Brilliantly clear with high N.W. 34° wind. "Finger cold" this morning, rather warm at noon.

Spent most of day at Merritt Meadows & in Holden woods. The men finished clearing out the road woods & began hauling timber. In P.M. Mr. Armstrong a gamekeeper appeared & showed the traps which he says are all set, we knew as I had supposed. At 4 P.M. met Mrs. Emerson called.

Wea.

THUR. OCT. 18, 1900

Ther.

Clear with fresh W. wind 34°
Early morning cold, warm at noon.

In A. M. paddled up to the
house where I met E. R. S. By
appointment to advise her about
cutting down some berries & other trees.
Dined at the 'Keyes'. In the P. M.
walked to the boat harbor with Miss
Keyes, Miss Parker & Mrs. E. R. S.
Got back to the cabin at 8 P. M.
Slept part of the way down.

Wea.

FRIDAY 19

Ther.

Clear & cool with strong N. W.
wind

Spent the day with the men
on the Bonnet Meadows. We
made good progress with the
ditch & roadway & expect to
finish both to-morrow.

Raymond Emerson came down
in his canoe at 6 P. M. to
spend the night & go shooting
down river to-morrow.

Wea.

SAT. OCT. 20, 1900

Ther.

Cloudless & calm.

27°-57°

Spent still another day at the
Bonnet Meadows where the men
practically finished the roadway &
ditch. He also, dragged out an
enormous quantity of brush and
burnt it on the meadows at evening.
Raymond Emerson started out on
dog track this morning. He shot at & missed
(or failed to kill) a Grackle, a Mink & my
tame, curiously-colored Silver Creeper.
Roland Hayward came by S. S. train to pass
Sunday.

Wea.

SUNDAY 21

Ther.

Clear with strong W. wind. 32°-65°

Roland & I drove to the farm
after breakfast & walked back
through the woods looking at cabins
just in time for dinner.
In the afternoon we went to
Holden's Hill.

Wea.

MON. OCT. 22, 1900

Ther.

50°

Cloudless with soft breeze
deliciously warm. Wind S. W.

72°

58°

We broke ground this morning for
a wood shed & took down part wall
of Gilbert's Cabin. I stayed with the
men all day & by night we had the
excavation completed & down of the
stone underpinning laid. Roland
left us by the 8.15 train this
morning.

Wea.

TUESDAY 23

Ther.

52°

Clear and warmer even than yesterday
with fresh S. wind.

77°

67° 8 PM

Spent entire day at or near cabin.
James Long, a Cornish mason, came at
10 a.m. to lay the wall for the
new wood shed. He set the steps
in front of the new cabin in the
afternoon. A Hermit, 4 Golden Crests,
2 Black Poles, 4 Chickadees, a Downy
& a White-throat visited the thicket
about the cabin during the day.

x x

Wea.

WED. OCT. 24, 1900

Ther.

Clear, very warm, calm all day. 40°-78°

Took 9 a.m. electric to Concord to meet
C., Beaudin & Ada Brewster at Fitchburg
station at 10 a.m. Beaudin & Ada came. C.
did not so I returned to Davis Hill.
Having L. & A. to wait for her. She arrived
at noon & they all drove down together
& dined at the cabin. After dinner we
drove to the farm where C. & I spent our
first night at L. & A. departing for home at 3.30.
The oak foliage gorgeously colored to day.
It would last longer.

Wea.

THURSDAY 25

Ther.

Brilliantly clear with fresh N.E.
wind. Cooler than yesterday.

In a.m. C. & I drove to cabin, round
thence to Davis's Hill, walked to Birch Lake &
& through the Hawthorn wood road to the
farm where we dined.

Soon after dinner we drove again to Davis's Hill
& I carried C. up over the covered up the
ascender & finally to Hawthorn bridge.
She took 4.41 train for Manchester. I round
back reaching cabin at 6 P.M.
Oak foliage still as in previous. I have some
more in view for the future.

Wea.

FRI. OCT. 26, 1900

Ther.

37°-56°

Cloudy with fine mist - which
was the leaves & grass thoroughly & the
trees dripping.

Spent the day with the men cutting
brush at the E. end of Davis Hill.
Two of the men were hauling stone
from the old wall to the new
wood shed which has advanced rapidly
& will probably be ready for the roof
by the - unknown night. Saw very fine
birds, a Partridge, & several other birds.

Wea.

SATURDAY 27

Ther.

Cloudy with mist & at times 53°-58°
fine rain.

Spent the early forenoon & late
afternoon with the men. The stone walls
of the new wood shed were practically
finished by night & we did a
lot of miscellaneous work at a man
the cabin. The structures of the new
cabin are now hung, the inside
trimming finished. May & Harry,
Amherst arrived on 11.00 & dined at
cabin. We went to the farm in P. M.

Wea.

SUN. OCT. 28, 1900

Ther.

Cloudy with N.E. wind & 50°-57°
heavy rain through the forenoon.

Drove to farm in A. M. met
Mr. Long, the mason, there & talked
with him about building a high wall
at N. end of orchard. Next called on
Mrs. Ritchie & agreed to employ Mr. Little
for 2 weeks. Finally called on the Howes
& talked about schoolhouse without definite
results. The Howes family were to have come
down to dinner but the rain prevented.
In late P. M. walked to Davis Hill.

Wea.

MONDAY 29

Ther.

Cloudy with N.E. wind up to 4 P. M.
when the wind fell calm, the sky cleared
& the sun shone gloriously until it set.
Night settled but foggy.

Spent most of day on Davis Hill
where the men cut a number of rather
large pieces for the timber etc. for the
new wood shed. We put them in
the river & Pat carried the beam up
to the cabin using them behind his boat.

Wea.

TUES. OCT. 30, 1900

Ther.

48°-55°

Cloudy & cool with strong, harsh N. E. wind.

Spent the forenoon on Davis Hill. The mason was finishing the culvert there and Pat cut down some more pines. After they were in the river I tied them in a long string & towed them up to the cabin using my little canoe & sailing the whole way, in about half an hour. He also began this morning an excavation at the E. end of Ball's Hill for a horse stable. Pardon came unexpectedly at 2 P.M. to spend the night.

Wea.

WEDNESDAY 31

Ther.

A duplicate of yesterday but 40°-51°
cool - altogether a dismal, despicable day

Pardon left us at 9 a.m. I had a very busy day with the men. We finished the excavation for the stable & the mason finished his work on the wood shed & also put in a second culvert at Davis Hill. The new cabin is advancing slowly. The oak window coverings both inside & out are now in place.

Wea.

THUR. NOV. 1, 1900

Ther.

41° at noon

Cloudy with S.W. wind & light rain all evening. The sun shone for an hour or two in the afternoon.

Still another busy day with the men. The carpenters working on the trimmings of the wood shed, the mason on the stone walls of the stable, I skinned about with John & Jimmy & Jimmy cutting some pines in the big opening, finishing the grading of the road to Davis Hill etc.

Wea.

FRIDAY 2

Ther.

Brilliantly clear with fresh W. wind 72°-20°

Spent most of the day at the house with Pardon & I. I cut down & into pieces a number of fine boards that stood in the clothes yard. Dined at the Hayes' where I saw Miss Martin, Miss Goe, Miss Davidson & Miss Porter. Had a stiff headache up until against the wind but a glorious sail took us home before home.

Concord.

Wea.

SAT. NOV. 3, 1900

Ther.

Cloudy with light E. wind 37°-57°

Spent entire day at cabin attending to "last things". The carpenters finished roofing on the wood shed, the mason nearly finished the stone wall around the stable excavation.

Pat, John & Jimmy Flannery were busy grading, making roads, putting in stone steps etc.

Wea.

SUNDAY 4

Ther.

Cloudy most of the day with light E. wind. Densely foggy in early morning.

Spent the day at the farm where I met Mr. Long the mason, the two carpenters Ellsper & Engstrom, Pearson & Loring. Talked over the farm work & decided to build on 8 ft stone wall on the head of the orchard.

Walked back to the cabin before sunset.

Concord

Wea.

MON. NOV. 5, 1900

Ther.

Cloudless, calm, dry, warm.

My last day at Concord and the busiest of this very busy autumn. I had ten men at work on my new tin cabin. The mason finished the stable pit wall. At noon we discovered that the chimney of the new cabin had cracked & tilted & was braced as for debris with timbers. In P.M. Hanson brought a large chestnut log for a boiler tube. Gilbert & I closed the cabin & went to Cambridge by 6 P.M. train. Found C. at the house.

Wea.

TUESDAY 6

Ther

Brilliantly clear & calm with fresh NW wind.

Spent most of day in museum with E. K. S. who has been in for two or three weeks at the Thayers came up in a carriage to-day to stay with us.

Wea.

WED. NOV. 7, 1900

Ther.

Clear with light S. W. wind, a delightful day for this season.

Drove to New (Camp) Hill at 10 a.m. & had a long conference with Woodward & then to Boston where I dined at Fillmore's, called at 35 Congress St., "aid on" and called on Smith & Westinghouse & Jones, & attended meeting Anderson Soc. Directors at 3.30 P.M.

Wea.

THURSDAY 8

Ther.

Cloudy most of the day with thunder showers in late P.M. & evening. Very warm.

To Concord with Gilbert by 8.34 train. Crossed river in little open canoe. Saw carpenter who was finishing wood shed & Pat & John who were clearing up the pasture in Holden woods. Then walked to Eagle Hill & walked thence to farm where I found Long, Peterson, Henry, Jimmy, Kendall & Benson at work getting out rocks. Paid off Peterson & discharged him. Back to Cambridge by 6 P.M. train. Heavy thunder storm with hail outbreak on at Bedford.

Wea.

FRI. NOV. 9, 1900

Ther.

Cloudy with violent thunder shower in forenoon & drizzling rain in P.M.

Spent day in museum writing & getting things ready for the A.O.U. meeting next week. Saw two Orange-crowned Warblers in the garden & shot one of them with my 22 cal came gun in the willows just behind the house. I tried to shoot the other but it was shy & finally escaped me. The bird I got was a ♂ I made it into a skin.

Wea.

SATURDAY 10

Ther.

Brilliantly clear with violent N.W. 34° wind.

Gilbert & I went to Concord by 8.34 a.m. train. Crossed river to Ball's Hill & walked thence to the farm where we dined. Found Benson, Kendall & Jimmy at work there, at the cabin the two carpenters Pat & John. The wood shed finished & looked up. Took 4.24 P.M. back to Cambridge. There was ice on the waterways back at Concord.

Wea.

SUN. NOV. 11, 1900

Ther.

Cloudy & chilly.

Spent a.m. in Museum writing.
Went to Boston at noon with C. &
dined at the Haywards'. Aunt Mary,
Roland, May, Harry & Miss Hammond at table.
Called on Frank Manning afterwards.
Came out at 4 P.M.

Wea.

MONDAY 12

Ther.

Cloudy & mild.

A.O.U. meetings began to-day. To Botley's
at 10 a.m. to attend Council meeting,
which closed about 5.30 P.M. All but
one of the Council there. Among them
Cory, Drayton, Dutton, Sage, Roberts,
Fisher, Morrison, R. Deane, Allen
Chapman, Elliot.

We gave a dinner party at 6.30 P.M.
at 8 P.M. the Actin members held the
annual business meeting in my Museum.

Wea.

TUES. NOV. 13, 1900

Ther.

Clear & mild.

Morning session 10-1 afternoon 2-4
at Wash Hall. Lunch at Colonial Club.
Large attendance. More important
scientific papers to-day. A few
Cartoon slides in P.M. (I showed some
of mine). Dinner at Botley's at 7 P.M.
I went with Walter. 22 men present.

Wea.

WEDNESDAY 14

Ther.

Clear & mild.

The sessions to-day mainly devoted
to cartoon slide exhibitions & talks.

I gave a reception at the museum
this evening to the A.O.U. members.
About forty were present.

Wea.

THUR. NOV. 15, 1900

Ther.

Cloudy with light rain.

The reports of the Protection Committee came this forenoon. In the afternoon the Audubon Society held a Congress in ~~the~~ ^{the} Geology Room on the Main floor. Allen, Merriam, Deane, Chapman, Deane & a few others of the A. O. U. members attended this meeting. At which Mr. J. B. Hays gave a dinner. This evening at which Mr. J. B. Hays, Horace Swadlow, Geo. V. Bennett, Andrew Peabody, John Brewster, Edward Benson, Dr. Gehrig, Dr. Blakely & several others were present. Mr. Benson read his lecture on the same to us after the dinner.

Wea.

FRIDAY 16

Ther.

Bitterly clear with strong N. W. wind. 26°

Twenty of the A. O. U. men went to Concord with Walter of 9 A. M. Train. Gilbert & I went up about 8.34 train crossing over at Ball's Hill. I drove them to the farm where my guests arrived in a large team of 4 black horses at noon after a bunch of sandwiches, milk, cider etc., we walked to the cabin through the woods. The A. O. U. men went back by stage while Gilbert & I stayed on. When I returned on the farm I was with them.

Wea.

SAT. NOV. 17, 1900

Ther.

20° at 6 AM
A. M. clear, clouds gathering in 15° at 11 AM. Light W. to S. W. wind, very cold.
Took 8.34 train for W. Bedford. Found wire entirely frozen but Pat had broken a channel through which we crossed. Dined at cabin with Gilbert & at 2 P.M. went to farm where C. joined me later in Harold Sunday. Heard a Partridge driving in the Barn. Heard a "Silly Pilot" this evening. It is a thing from Henry & Co in the West.

Wea.

SUNDAY 18

Ther.

Clear & warm with strong S. W. wind

To Ball's Hill with C. at 9 A. M. driving down in the farm wagon. As we were in the new cabin the whole evening family arrived & we had a pleasant talk. C. & I walked back to the farm through the woods leaving the wagon on train for dinner. Timed the Silly Pilot in the evening.

Wea.

MON. NOV. 19, 1900

Ther.

Cloudy with steady rain in A.M.

C. departed for Cambridge at 9 A.M. driving up to Concord for the train. Gilbert & I dined at the Cabin & took the 12.30 train from W. Medford. I kept on into Boston to wait on appointment at Dr. Rands at 2 P.M. taking an electric car to Cambridge at 4 P.M.

Wea.

TUESDAY 20

Ther.

Cloudy, misty, warm.

Spent the entire day at Mrs. Cox's. Took walking with Dr. Woodworth & Antennae Bays on the Great Jamaica collection of birds. There were a large number of drift birds & put the names down in order for cataloging.

Wea.

WED. NOV. 21, 1900

Ther.

Cloudy with strong S.W. wind & heavy snow at evening.

Spent A.M. at Mrs. C. Z. with Dr. Woodworth, Antennae Bays & Walter finishing the work on the Great Birds. Returned to home for lunch & found Dr. & Mrs. Roberts there. I hurried in town for another session with Dr. Rands. Dined at the Haywards & with C. & E. D.S. at Boston Society where Dr. Roberts read his paper on F. willisii's Chel.

Wea.

Friday ~~THURSDAY 22~~ 23rd

Ther.

Brilliantly clear with strong W. wind. Warm at noon, chilly in evening.

Gilbert & I went to Concord by 8.34 A.M. train. Dined at Cabin. Carpenters have finished floor of new Cabin & are working on chimney by for both Cabins. Bays & his men repairing wall at Rands Hall. Then to farm in P.M. C. finished work there at 5.30 to pass the night.

Wea. ~~Thursday~~ ²² ~~Nov. 23~~ 1900 Ther.

Cloudy & ~~calm~~, with strong N. W. wind.

C. & I drove around Fresh Pond after breakfast. Hundreds of ~~ducks~~ & a great many ~~ducks~~ including a flock of 17 Ruddy Ducks in Cambridge Mass. Spent most of day working in the garden with Pottery & his son. Peterkin brought a load of ~~min~~ ^{min} ~~hops~~ from Concord. In the eve drove out with on Pottery's at 7 P. M. Home - Pottery, Dean, Townsend, Goodwin, ~~John~~ & myself.

Wea. SATURDAY 24 Ther.

Cloudy, calm, very mild.

C. & I spent the forenoon at the farm. I was busily engaged with the new putting things in order. I have decided to clear the place for the winter. George Dean will call Chas. the boy will go to Morris's, the cow to Home's, the hogs to Benson's. After dinner C. & I walked to the cabin & drove down to Concord taking 2.30 P. M. train for Cambridge.

Wea. SUN. NOV. 25, 1900 Ther.

Cloudy & chilly with heavy rain in A. M.

Spent A. M. writing letters in Museum. C. & I went into Boston in noon & dined at the Haymarket with Aunt Mary, May, Harry, Roland & Miss Hammond.

Wea. MONDAY 26 Ther.

Cloudy with strong N. E. wind & heavy rain all day.

Drove around Fresh Pond with C. just after breakfast. About 100 Geese, 25 Black Ducks, a flock of 17 Ruddy Ducks, & a lesser scaup were swimming in the water, a flock of 6 White-winged Scoters flying about over it. Most of the birds were in rough water near the low shore, but the Ruddy Ducks & Scaup were in Court. Mass. Spent day in Museum.

Wea.

TUES. NOV. 27, 1900

Ther.

A. M. cloudy with strong N.E. wind & 36°
fine rain.

To Fresh Pond near C. at 9 a. m.
52 Black Ducks at S.W. end of Pond,
17 Ruddy's, the 3 Lesser Scaup, a
fine ad. ♂ Whistler (a new comer) in
Country Club. The Ruddy's were within
gunshot of shore diving for food & I had a fine
view of them.

Wea.

WEDNESDAY 28

Ther.

Brilliantly clear with crisp but not
cold air & but moderate W. winds.

I had intended starting for Bethel to-day
but finding it impossible to arrange all
my affairs here in to buy a train here
put it off until Saturday. Spent to-day
in the Museum working over my
water books etc.

Wea.

THUR. NOV. 29, 1900

Ther.

Cloudy with light rain at 4 P.M. &
through the night.

Spent A.M. in Museum with Walter
& Gilbert getting my things together for
the flitting to Bethel. C. & I dined
alone at 1.30 and then from later
went into Boston & spent about 2 hours
at Keith's Theater. Had supper at
Parker's & came out at 8.30

Wea.

FRIDAY 30

Ther.

Cloudy with drizzling & rain light
rain. There is no frost in the
ground & the leaves are as green
as in June.

Spent day in Museum making
the final preparations for the trip to
Bethel. Gilbert & I packed two trunks
& a portmanteau. I am taking a good
many books.

J. T. Clark calls in A.M. & took away
show at Hallowell, Me. Dec 25 1900
the European Wagon. The owner will not sell
Clark offered him \$25.00.

Wea.

SAT. DEC 1, 1900

Ther.

Clear & mild. There is still no frost & the Cambridge lawns are emerald green.

C. & I left Boston at 12.30 & went to Portland over the Eastern R.R. I found Dr. Gehring on the train.

Saw a few washed snow drifts on N. slopes after passing Portsmouth but the fields were bare all the way. & in Portland some of the lawns & heavy banks were green.

Went to Congress Square Hotel. Spent evening reading Miss Howard's "The Garden of Eden" aloud. It is a strong story.

Wea.

SUNDAY 2

Ther.

Clear & mild. with no wind

C. & I went to St. Stephens Church in A.M. and afterwards walked about the city admiring its beautiful old houses.

Spent the afternoon & evening in our room reading "The Garden of Eden" which we finished by bed time.

Portland

Bethel.

Wea.

MON. DEC. 3, 1900

Ther.

Clear but heavy with light S. wind 27°
42°

C. took 9 a.m. train for Boston. I spent most of a.m. at Lord's taxidermist shop where I met several local bird men among them Dr. Brock & the veteran taxidermist Bink Daniels now running a set of camps at Sebago Lake. Lord had few interesting birds to show me. His work runs largely to deer heads.

Dined at R.R. Station & started for Bethel at 1.15. Country snow covered up to Paris & beyond. Found a lot of snow & good sleighing in Bethel.

Wea.

TUESDAY 4

Ther.

Cloudy & mild. Snow began falling thickly 30°
40° at 3 P.M. but it had made but little by dark.

Took a cruise walk with the family after breakfast. The cruise was hard & firm in most places. It was overlaid by a dusting of fine snow which showed tracks with nice detail. I saw those of Skunk, White Hares, House Cats & near a flower heap, those of a chipmunk. Not a bird of any kind noted. Dr. Gehring heard a Blue Jay, however.

Had my first breakfast in the forenoon 10.30-12. Walked to Mt. Ophan in P.M. seeing a small flock of English Sparrows in the village.

Bethel, Me.

Wea.

WED. DEC. 5, 1900

Ther.

It snowed steadily all last night & through to-day, more than 18 inches falling. The snow was light but deep & clung to the trees in clotted places. But the wind blew it off from them about the house. The mountains have been obscured during the past two days. There is no bird or animal life visible from the house. Nothing but the unbroken water of Hallow's brook.

Took a walk at 10.30

Wea.

THURSDAY 6

Ther.

Clear with light W. wind. Early morning cold; middle of day warm
13°
30°

Passer domesticus 2 in valley
Cyanocitta cristata 2 flying over woods
Geothlypis trichas 1 in apple orchard.

In A.M. took 6 photos with Panoram Kodak. In P.M. walked through deep snow to woods W. of house where I saw 2 Blue jays, tracks of many Rabbits & one track of a Squirrel. The sunset (at 4 P.M.) was very fine.

Bethel, Me.

Wea.

FRI. DEC. 7, 1900

Ther.

Veiled sunrise in A.M. cloudy in P.M. with snow squalls at evening. 17°
32°
The snow softened a little & the snow drifted slightly in P.M.

Out with the 5x7 camera after breakfast. Walked through deep snow up the clearing (Southwood) & exposed 4 plates on distance near house. The air was still & seemed warm. I wore neither overcoat nor gloves yet came in dripping with perspiration. Heard a Jay ~~hissing~~ ^{chattering} in P.M. Saw a Shrike chasing a Sparrow (down stream) which I think he caught.

Wea.

SATURDAY 8

Ther.

Brilliantly clear, dead calm, mild at midday. 14°
28°

Took my usual walk (or wade) after breakfast on the fields S. of the house. Exposed 2 plates there. Heard Blue jays & the distant flight call of a Goldfinch. In P.M. drove out 2 miles along the Middle Suburban Road with Dr. Gehring & Mr. Potter. Exposed 6 plates, 5 of them in snow loaded when fences through which the road passed, 1 (1/2 m. after house) on a distant view of the wine valley. The woods & fields were wonderfully beautiful & the mountain beyond. Saw a Blue Jay & heard a Chickadee. The air though frosty was wonderfully soft & grateful. Got back at 4 P.M.

Wea.

SUN. DEC. 9, 1900

Ther.

30° 9 a.m.

A wild day, brilliant sunshine & dense 2° 8 p.m.
 snow squalls alternating. The snow blowing
 from the trees & drifting across the fields
 before the rising N. wind. Air freezing but not
 really cold. This is the first windy day thus far.

Took my usual walk in the fields after
 breakfast. The drifting snow drove past me
 in dense whirling haze blowing me back &
 enjoyed the exercise & the cold tingle of
 the elements. The mountains were hidden.
 No sight or sound of bird or animal was
 seen except in the air drifting snow.
 Spent rest of day in doors.

Wea.

MONDAY 10

Ther.

Brilliantly clear with violent -10°
 N. W. wind -2°

The Potters started for Boston, Mrs. Gehring
 & the girls for Portland, by the morning
 train. The Doctor & I went to the
 station to see them off. He sat down
 alone together on a platform seat. He was
 bitterly cold but with a day's exhilaration
 on. The Doctor & I walked all the way
 back. Spent rest of day in house.
 At evening had news that a wrecked freight
 had delayed our friends at W. Paris
 all day. No birds. Two deer both close
 killed within 200 yds. of our house this morning.

Wea.

TUES. DEC. 11, 1900

Ther.

-10°

Clear with moderate N. W. wind. +14°

Regulus satrapa 1 hd. 1 seen wood road S. of dr. S's.

Spent a.m. in doors. At 3 P.M. started
 for a walk with Dr. G. We followed the wood
 road which enters behind Miss Jure's house for
 nearly a mile. Met several sleds laden with
 cord wood. Woods silent as the grass. Saw for the
 first of the two Kinglets. Saw only rabbit tracks
 & a few of them. Had an exhilarating walk,
 however. The Doctor was testing my hip & pushed
 me hard & fast.

Wea.

WEDNESDAY 12

Ther.

-4°

Brilliantly clear with strong N. W. +12°
 wind.

In A.M. the Doctor gave me a rough
 ride to the station & back. At 3 P.M.
 we repeated yesterday's walk but went
 a little further on getting fairly into
 a dense woods of tall balsams & hemlocks.
 Neither sight nor sound of bird or mammal
 and no fresh tracks save those of a Squirrel.
 The squirrel pattered noiselessly in the tops
 & the snow crunched under our feet. Attention all
 was silence. My hip troubles were forgotten
 for I walked the whole way at least 2 miles.

Wea.

THUR. DEC. 13, 1900

Ther.

Cloudy. Wind N.E. to N.W., light

a gloomy day with light flurries of snow. Dr. Gehring departed for Portland this morning to stay until to-morrow. I spent the forenoon writing. In the late P.M. walked up the wood road for a little more than a mile. The trodden snow in the roadway had softened very noticeably although the air was in about 20° to day & there was no sun. Saw 3 chickadees ^{in alders} & made one of them whistle. No fresh tracks.

Wea.

FRIDAY 14

Ther.

Brilliantly clear; calm.

Received my new Folding Kodak camera yesterday & tested it this forenoon by posing a dozen film plates along the shore to the village & from our premises. The sun was warm & I was perfectly comfortable without either gloves or overcoat.

Later in P.M. walked up Paradise Hill to beyond the apple orchard where the road became too difficult to follow further. The forest was very fine.

Developed my films for the evening. No birds in day.

Wea.



SAT. DEC. 15, 1900

Ther.

+ 1°

+ 24°

Cloudless, no wind.

Spent A.M. photographing near house up wood road to Balsam Knoll 2.30-4 P.M. taking 4 pictures there. Found tracks of large Wild Cat which had crossed road at right angles making jumps of 2 to 5 ft. The track was sometimes  sometimes . The former arrangement of prints like track of Rabbit. The prints of hind feet were 2 1/2 to 3 in across (estimated). Some of them were very distinct. Also found tracks of Porcupine leading to hemlock. A solitary Chickadee the only bird seen in the day.

Wea.

SUNDAY 16

Ther.

+ 2°

Brilliantly clear without a breath of wind. + 14°.

Spent 2 hours up the wood road this A.M. starting at 11.30 & walking to the crossroads (about 2 m.). It was simply heavenly in these woods. The sun was warm the air soft & windless. Birds out in unusual numbers. Heard a Canada Warbler, Chickadee in 3 places, Kinglets in 2 places. Started 2 Partridges from tops of tall trees near together & saw tracks of another. Snow everywhere marked with footprints of Rabbits. Saw many Fox tracks also - found 2 Porcupines.

Wea.

MON. DEC. 17, 1900

Ther.

— 8

Cloudless with absolutely no wind. + 22°
Scum on mountain is remarkable,
fine of dark & trees the most rich &
delicate that I have seen. Am going
back a turn with the doctor on road
thru open brush forest going to the
upper end of our clearing & a little higher
in the heavy young fir growth. Saw
2 Chickadees & many mouse trails leading
from stump to stump over the snow. In
late P.M. walked to Robinson Idiot
& back. Snow clear the mountains were visible

Wea.

TUESDAY 18

Ther.

- 23

Cloudless, dead calm all day + 22°
A heavy morning, air heavy but soft.
Took a turn with the Doctor on
snow shoes after breakfast going to
the upper end of our clearing ~~to a little~~ $\frac{1}{4}$ mi
beyond the the woods. following an old
~~In late P.M. walked up the road and~~
~~to Doctor's. Thence, wood path. Found~~
a beautiful region heavily wooded with fine
hickories & bassoons with fragrant openings.
Three Kinglets in 2 places, Chickadees one,
2 Red Squirrels. Saw a Partridge hawk,
a P. Cooper's Hawk & young hawk, Robber Hawk.
Enthused 12 plants with $4\frac{1}{2}$ $3\frac{1}{4}$ 7 & 12; Hand

Wea.

Wed. Dec. 19, 1900

Ther.

+ 2°

+ 40°

Cloudy, Calm, mild.

To village in A. M. Saw a Blue Jay in apple
tree near a house.

To Glen Woods in Lake P. H. Snow thawing everywhere & falling from trees in masses. Every now & then the branch of a tree would break with a report as loud as a pistol as a cascade of snow fell on it from a branch above. The snow falling was very different & looser as the wind heavy snow clogged & covered the trees all over. Heard one flock of 4 Chickadees accompanied by a Creeper, another of 3-4, 2 Canada Thrushes. no fresh tracks in snow or ice. & evidently the forest folk stayed in the dens last night.

Wea.

THURSDAY 20

Ther.

4350

Cloudy with light rain last night + 40°
and snow squalls this P.M. Violent N.W. wind
blasted up at 8 P.M.

Heard three jays screaming this evening &
later 2 came into apple tree near our house.
Spent a. m. in clothes, writing etc.

Started out on snow shoes at 3 P.M.

Taking the better trail to the Glen woods.

Went far beyond where the Doctor & I stopped
on Tuesday coming out at Rose Meadows.

Saw 14 Kinglets (3 together, 1 alone) & a Creeper.
There were no fresh tracks save those of Squirrels.
The snow has settled badly & is nearly all off the
trees. It was nearly dark when I got home.

Bethel, Me.

Cambridge, Mass.

Wea.

FRI. DEC. 21, 1900

Ther.

Brilliantly clear in A.M. Cloudy + 18°
in P.M. Almost no wind. + 34°

Out on snow shoes with the Doctor & George
8.30 - 10 A.M. following the wood edges
around our clearing following animal trails etc.

To my surprise found hair of Skunk that
had come out into the fresh last night.

Three Blue Jays, on the orchard this morning.
A Chickadee visited some tree just up yesterday
stayed a flock of Goldfinches in clearing a lot
of them. I spent P.M. practicing in dark
room with D.C.

Wea.

SATURDAY 22

Ther.

Cloudless & clear calm more of the day. + 8°
Early morning cold at Bethel, coming at Cambridge with 30°

Left Bethel at 9.15 A.M. for home. Dr. Gehring
went with me as far as Portland where
dined alone at the Union Station. The
afternoon ride on the Eastern Division
was very interesting the woods being especially
beautiful. There was a thin crust of ice snow
over the fields about Portland & nearly all
Portsmouth forests of which the country was wholly
bare. At Cambridge the crows on their feet.
C. & George were in at Boston. On looking in
house I found a houseful of birds. Mrs. Sumner, Dr. J. J.
Walker & George, Mrs. O'Leary, Mary, Anne, James & Philip

Cambridge.

Wea.

SUN. DEC. 23, 1900

Ther.

Clear & mild with light N. wind 50°

[at Bethel 10° & 30°]

Directly after breakfast down to Fresh Pond.
with C. Found Frank Allen there looking at the
birds. The Pond was covered with thin smooth ice
on which were sitting or standing fully 1000 Gulls
& about 60 Black Ducks coming in groups of 2 or 3 ones.
In the open water, was a small ice hole full of water
wading & diving. It was a Gull for a 1/2 hr.
among the Gulls were 2 or 3 Black-balls.
A number on shore in P.M. in some 2 flocks of
6 or 8 very tame Crows. We went down through
Ponyon Park where we saw 2 Cedar Birds.
Dined at the Hargreaves with the family &
Mrs. Brewster. With Allen & some other friends
as a Parker called later on in evening

Wea.

MONDAY 24

Ther.

Cloudy & calm, very mild.

[at Bethel 38° & 44°]

To Fresh Pond with C. at 10 A.M. About
700 Gulls (one or 2 Black Duck), 128 Black Ducks,
1 ad ♂ Mallard & 6 Whistlers were sitting on the
ice or swimming in a broad bay of open water
that has at least been there in yesterday.
Had a fine view of the mallard as the birds were
on the edge of the ice. Saw a Pigeon Hawk
flying across the fields from the Hedges.
Also a number of town Crows.
Two Cedar Birds on Parker's lawn & a Shrike
singing in our Concord.

Cambridge.

Wea.

TUES DEC. 25, 1900

Ther.

32°
44°

Clear, calm, mild.

(The weather has been very warm here for nearly two weeks. It is like early spring.

To church with C. at 8.30. Walked afterwards up the River Parkway through Elmwood. Opened the plates at 11 a.m. Frank Manning with us & Larry at the bin. Dined at the Thayers. All the family & children there as well as Will & Edward Simmons & the latter wife & children. Will Simmons very interesting about his breeding experiences. Went on then with C. & E. R. S. on the wing & heard the Methodist on the wing. Miss Hall. Walter Co. had 1378 Quills on Fresh Pond.

Wea.

WEDNESDAY 26

Ther.

29°
32°

Fair, clouds & sunshine alternating. A rather high & very cold N. wind.

Drove to Fresh P. with Gilbert at 10 a.m. taking the 6 1/2 x 8 1/2 camera. There were about 300 Quills & 140 Ducks on the ice at the edge of a rather large area of open water off the Humboldt. Exposed 2 plates at them but the light was poor & they turned out badly. Spent P.M. in the Museum.

Meeting of Council of Middle Church at 8 P.M. To consider recommending Secretary. voted to give him \$25 for past years services.

Cambridge.

Wea.

THUR. DEC. 27, 1900

Ther.

20°
30°
10°
21°

Brilliantly clear with almost no wind.

Drove to Mus. Comp. Zoology at 10 a.m. to meet with the Committee on Distribution. The other two members, Dr. Chace & Dr. Blake, appeared at 10.30 & Dr. Mack showed us through all the various rooms in the Biological Dept. This tour of inspection consumed nearly 2 hours.

In P.M. C. & I drove over to Longwood to call on the Greenoughs. Only Constance & her baby were there to receive us. Called on the Coolidges after our return.

Wea.

FRIDAY 28

Ther.

32°

Cloudy with about 1/2 inch of snow falling in a.m.

7°
26°

Spent day in Museum. In a.m. wrote down different letters to Agassiz & Bodder about the supposed Wilson "types". There are 16 birds originally from the Peck Collection which I bought of Maynard a long time ago. I have offered to return them to the Society on certain conditions.

Bois Home called at 8 P.M. with plans for getting the four houses at Concord.

Cambridge

Bethel Me.

Wea.

SAT. DEC. 29, 1900

Ther.

+ 22° *Cambridge*

Clear, calm, cool.

14° } Bethel
29° } -

Returned to Bethel to-day taking 9 a.m. train, Eastern Div, from Boston. C. went with me to Portland. & took 12.45 train back to Boston. I left Portland at 1.15 & reached Bethel at 4.45 P.M.

The country from Boston to Portland was dusted over with fine snow that fell yesterday. It powdered all the unexposed protruding parts of great boulders & trees, in the deep woods. Saw a Shrike near Portland.

Wea.

SUNDAY 30

Ther.

+ 2°

A.M. clear, P.M. cloudy. no wind

+ 36°

In A.M. wrote letters, & exposed 4 plates from the previous in a 4x5 camera to test some new lenses which I am trying. At 12.30 put on my snow shoes & walked down through the orchard to the edge of the woods. In P.M. developed the negatives & took a snow shoe walk with Dr. Gehring to the ~~forest~~ ^{edge} of our clearing. The snow has melted to places under the ice & has on my coat. Heard Blue jays, crows, & found 3 chickadees at the house near my window.

Wea.

MON. DEC. 31, 1900

Ther.

+ 20°

+ 36°

Cloudy, calm, mild. A brooding, depressing day. Snow squalls in P.M.

Out with the Doctor on snow shoes in early A.M. & later P.M. going both times into the woods south of our clearing. Put up some deer & set a rabbit trap there. Also hung up a large beef bone to attract Foxes etc. Snow covered & no fresh tracks visible. Saw a Kinglet & heard a crow. A Blue Jay attacked a cat in the clearing this morning. Three Chickadees hung about it all day.

NOTES FOR 1901

MEMORANDA

MEMORANDA

MEMORANDA

MEMORANDA

WAGES

Name

Engaged

Pat Flannery

37.20 a driver to
hay furniture
Dec. 1899.

15. on acc.
April 18

13. on acc.
May 12

5. on acc.
July 16

Worked in all
80 days to June 3
Paid -
120.00
65.00 paid in adv.
55.00 bal. Feb. June 4
15. on acc and 29

Christian Borden

25. driver on
acc. May 1899
Hay on Holden
road.

Karl Ellison

WAGES

When Due

When Paid

Amount

W.F. Libby # 5 cash paid for shoes Jan. 12th
Settled account in
full April 26th 1900.

Peter Scovinsen in care } days 25.
25

autumn & winter 17 1900
Apr. 22 to May 12 18 # 30. May 12/

(Pd. in full to) May 12 " June 3 17.1/2 34.25 June 2
" " " June 3 - 14 10 25. June 2
" on acc. " - 3.
" " " July - 5
" " " Aug. 20 15

Mr. Hansen 8 days @ 1.75
2 1/2 hours
Apr. 28
30.

8 days to May 14
48 hrs horse in
all \$ 36.95
worth 30. Apr. 28.
Bal. 6.95 pd. May 30
Haying # 33. " July 23. in full
in account Aug. 20. # 20.
" " " 29 24.

✓ Christmas presents given in 1899.

LETTER REGISTER

Name	Received	Answered
C. F. B.		
E. R. S.		
Walter Deane		
Margie ..		
J. M. Chapman		
Dr. Coolidge		
H. A. Purdin		
George & Mary J.		
Gilbert		
Karl		
Mrs. Horn		
Pat Flannery		

Mr. Dab
 " Abby
 " Geneva
 Pat Flannery
 Amanda Mulligan
 "

Subscriptions ✓

LETTER REGISTER

Name	Received	Answered
Prospect Union	# 25 ^{Dec} 24 1900	

ADDRESSES

Name

Residence

Joseph Lerner (nurse) Lerner Hall Mr. Auburn St.
 Lapham (Has rustic blinds for old windows) Dock Square, Boston
 Dudley Pickman 931 Exchange Bldg "
 Warren J. Parker 226 Marlboro St.
 W. J. Coggin Room # 32 Tremont Bldg
 H. A. Johnson (Gay house) Groton, Mass.
 C. B. Cory 160 Boylston St.
 Miss C. M. Carr So. Sudbury, Mass.
 Putnam & Pope (Hardwood flooring 1/2 inch) Beverly "
 John Crawford Lakefield, Minn.
 Will collect eggs of Franklin's Gull in
 selected birds. Recommended by Dr. Roberts

Christian Petersen

Concord, Mass.

ADDRESSES

Name

Residence

J. W. Vinal 700 { 7 Dock Sq. Boston
 Recom. by Dr Chadbourne for tools. use.
 Has long spotted new dining &
 small kitchen " " both made

Desirable Plants

VISITS

Name	Address
<i>Morandia borelayana</i>	Flowering vine on Boston St admitted by E. R. S.
<i>Nymphaea devoniana</i> (night bloomer)	
" <i>keewensis</i>	
" <i>Lawii</i> <i>var. rosea</i>	
" <i>aranea</i> (especially fine)	
" <i>stellata</i>	
" <i>multiflora</i>	
" <i>gracilis</i>	

Seed by Henry
A. Dean 7/14
Autumn 8.
Flute
75-150 seeds
Blue

VISITS

Reception Day	Visit Received	Visit Returned
---------------	----------------	----------------

List of Birds observed at Bethel, Me.

MEMORANDA

Date December, 1900 | Dolls. Cts.

- ✓ 1. Cyanocitta cristata 4^{hd} 6² 7¹ 8¹ 12^{hd} 19¹
 ✓ 2. Passer domesticus 4⁽⁸⁾ 6² 7¹ 8¹ 12^{hd} 19¹
 ✓ 3. Dryobates villosus 6¹ 2² 2² 5¹
 ✓ 4. Parus atricapillus 8¹ 13⁽³⁾ 15¹ 16⁽⁴⁾ 17⁽⁵⁾ 1¹ 2¹
 ✓ 5. Spinus tristis 8¹ 13⁽³⁾ 15¹ 16⁽⁴⁾ 17⁽⁵⁾ 1¹ 2¹
 ✓ 6. Regulus satrapa 11¹ 13⁽³⁾ 15¹ 16⁽⁴⁾ 17⁽⁵⁾ 1¹ 2¹
 ✓ 7. Sitta canadensis 16¹ 19⁽²⁾ 20¹ 21¹ 22¹ 23¹ 24¹ 25¹ 26¹ 27¹ 28¹ 29¹ 30¹ 31¹ 32¹ 33¹ 34¹ 35¹ 36¹ 37¹ 38¹ 39¹ 40¹ 41¹ 42¹ 43¹ 44¹ 45¹ 46¹ 47¹ 48¹ 49¹ 50¹ 51¹ 52¹ 53¹ 54¹ 55¹ 56¹ 57¹ 58¹ 59¹ 60¹ 61¹ 62¹ 63¹ 64¹ 65¹ 66¹ 67¹ 68¹ 69¹ 70¹ 71¹ 72¹ 73¹ 74¹ 75¹ 76¹ 77¹ 78¹ 79¹ 80¹ 81¹ 82¹ 83¹ 84¹ 85¹ 86¹ 87¹ 88¹ 89¹ 90¹ 91¹ 92¹ 93¹ 94¹ 95¹ 96¹ 97¹ 98¹ 99¹ 100¹ 101¹ 102¹ 103¹ 104¹ 105¹ 106¹ 107¹ 108¹ 109¹ 110¹ 111¹ 112¹ 113¹ 114¹ 115¹ 116¹ 117¹ 118¹ 119¹ 120¹ 121¹ 122¹ 123¹ 124¹ 125¹ 126¹ 127¹ 128¹ 129¹ 130¹ 131¹ 132¹ 133¹ 134¹ 135¹ 136¹ 137¹ 138¹ 139¹ 140¹ 141¹ 142¹ 143¹ 144¹ 145¹ 146¹ 147¹ 148¹ 149¹ 150¹ 151¹ 152¹ 153¹ 154¹ 155¹ 156¹ 157¹ 158¹ 159¹ 160¹ 161¹ 162¹ 163¹ 164¹ 165¹ 166¹ 167¹ 168¹ 169¹ 170¹ 171¹ 172¹ 173¹ 174¹ 175¹ 176¹ 177¹ 178¹ 179¹ 180¹ 181¹ 182¹ 183¹ 184¹ 185¹ 186¹ 187¹ 188¹ 189¹ 190¹ 191¹ 192¹ 193¹ 194¹ 195¹ 196¹ 197¹ 198¹ 199¹ 200¹ 201¹ 202¹ 203¹ 204¹ 205¹ 206¹ 207¹ 208¹ 209¹ 210¹ 211¹ 212¹ 213¹ 214¹ 215¹ 216¹ 217¹ 218¹ 219¹ 220¹ 221¹ 222¹ 223¹ 224¹ 225¹ 226¹ 227¹ 228¹ 229¹ 230¹ 231¹ 232¹ 233¹ 234¹ 235¹ 236¹ 237¹ 238¹ 239¹ 240¹ 241¹ 242¹ 243¹ 244¹ 245¹ 246¹ 247¹ 248¹ 249¹ 250¹ 251¹ 252¹ 253¹ 254¹ 255¹ 256¹ 257¹ 258¹ 259¹ 260¹ 261¹ 262¹ 263¹ 264¹ 265¹ 266¹ 267¹ 268¹ 269¹ 270¹ 271¹ 272¹ 273¹ 274¹ 275¹ 276¹ 277¹ 278¹ 279¹ 280¹ 281¹ 282¹ 283¹ 284¹ 285¹ 286¹ 287¹ 288¹ 289¹ 290¹ 291¹ 292¹ 293¹ 294¹ 295¹ 296¹ 297¹ 298¹ 299¹ 300¹ 301¹ 302¹ 303¹ 304¹ 305¹ 306¹ 307¹ 308¹ 309¹ 310¹ 311¹ 312¹ 313¹ 314¹ 315¹ 316¹ 317¹ 318¹ 319¹ 320¹ 321¹ 322¹ 323¹ 324¹ 325¹ 326¹ 327¹ 328¹ 329¹ 330¹ 331¹ 332¹ 333¹ 334¹ 335¹ 336¹ 337¹ 338¹ 339¹ 340¹ 341¹ 342¹ 343¹ 344¹ 345¹ 346¹ 347¹ 348¹ 349¹ 350¹ 351¹ 352¹ 353¹ 354

MEMORANDA

Date	Dolls.	Cts
------	--------	-----

about one, one hundred -
20^② 21^⑤ 30⁶ 31⁷ on the
* river

18 Feb. 19 (14 in. Cuckoo in One downy.
 15 in. 2 Suckers 21 (6) 30 (13) 31 (13)

20 ③ ① 31 ^{Jan} ₂₂

BILLS RECEIVABLE

Date	Name	Dolls.	Cts.
------	------	--------	------

BILLS PAYABLE

Date	Name	Dolls.	Cts.
------	------	--------	------

CASH ACCOUNT—NOVEMBER

Date	✓	Received	Paid
------	---	----------	------

Utham Bangs' presentation			
to take the floor of arsenic.			
16 parts burnt alum to			
1 " Saltpeter.			

CASH ACCOUNT—NOVEMBER

Date	Received	Paid
------	----------	------

Prescriptions.

CASH ACCOUNT—DECEMBER

Date Received Paid

For Cough (by Dr. Gehring.)
 Suction Mux vomica 4 drops in
 1/3 of a tumbler of water. Sx at
 intervals making it last 2 hours. &
 repeat several times a day.

" Chronic Bowel Trouble (by Dr. Gehring.)
 Ichthyol. Fill a number 1
 gelatin capsule & take one after each
 meal. Buy capsules & ichthyol separately
 (the latter in 8 oz. bottles) & fill
 capsule just before taking.

CASH ACCOUNT—DECEMBER

Date Bonds Received Paid

6 Mexican Central due 1910
 1 Racine Water Works " 1897

Stocks.

35 shs. Boston & Providence
 15 " Old Colony
 15 " Boston & Albany
 105 " Fitchburg
 80 " Quincy Cold Storage
 166 " Boston Wharf
 15 " Greenfield Building
 22 Bell Telephone
 10 Third Nat. Bank
 5 Hide & Leather "
 3 Merrimack "
 37 West End R.R. pref'd
 25 Shady Hill Nursery
 117 Cambridge Fuel
 100 Mansfield Bond
 16 95/100 Atch. of St. Fe pref'd
 50 West End Bond.

SUMMARY

Received Paid

Cash on hand Jan. 1

JANUARY

FEBRUARY

MARCH

APRIL

MAY

JUNE

JULY

AUGUST

SEPTEMBER

OCTOBER

NOVEMBER

DECEMBER

Total

Balance to new account

Calendar, 1901.

1901	SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.	1901	SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
JAN.	6	7	8	9	10	11	12	JULY.	7	8	9	10	11	12	13
	13	14	15	16	17	18	19		14	15	16	17	18	19	20
	20	21	22	23	24	25	26		21	22	23	24	25	26	27
	27	28	29	30	31				28	29	30	31			
FEB.						1	2	AUG.					1	2	3
	3	4	5	6	7	8	9		4	5	6	7	8	9	10
	10	11	12	13	14	15	16		11	12	13	14	15	16	17
	17	18	19	20	21	22	23		18	19	20	21	22	23	24
	24	25	26	27	28				25	26	27	28	29	30	31
MARCH.						1	2	SEPT.	1	2	3	4	5	6	7
	3	4	5	6	7	8	9		8	9	10	11	12	13	14
	10	11	12	13	14	15	16		15	16	17	18	19	20	21
	17	18	19	20	21	22	23		22	23	24	25	26	27	28
	24	25	26	27	28	29	30		29	30					
	31														
APRIL.		1	2	3	4	5	6	OCT.		1	2	3	4	5	
	7	8	9	10	11	12	13		6	7	8	9	10	11	12
	14	15	16	17	18	19	20		13	14	15	16	17	18	19
	21	22	23	24	25	26	27		20	21	22	23	24	25	26
	28	29	30						27	28	29	30	31		
				1	2	3	4							1	2
MAY.	5	6	7	8	9	10	11	NOV.	3	4	5	6	7	8	9
	12	13	14	15	16	17	18		10	11	12	13	14	15	16
	19	20	21	22	23	24	25		17	18	19	20	21	22	23
	26	27	28	29	30	31			24	25	26	27	28	29	30
							1								
JUNE.	2	3	4	5	6	7	8	DEC.	1	2	3	4	5	6	7
	9	10	11	12	13	14	15		8	9	10	11	12	13	14
	16	17	18	19	20	21	22		15	16	17	18	19	20	21
	23	24	25	26	27	28	29		22	23	24	25	26	27	28
	30								29	30	31				

"Teach me, Father, how to be
Kind and patient - as a tree
joyfully the crickets come
Under shady oak at noon:
Bettle, on his mission bent,
Tavies in that cooling tent:
Let me also cheer a spot -
Hidden field or garden spot -
Place where passing ants can rest -
On the way and be their best -"



There are many interesting things about a night in late summer and early autumn, but few things that belong to it are more exciting than the determination of the temperature by the rapidity of the chirping of the "crickets," as the little green fellows that fiddle monotonously with their wings are popularly called. That measured, ceaseless "chirp, chirp, chirp" is certainly quickened as the temperature rises and slowed as it falls. I have seen the scale of the thing in print somewhere, and I doubt not that it is fairly familiar—so many chirps for 75 degrees, so many for 70, so many for 60; and at 50 the chirping is low and very slow indeed. One of the recent nights the mercury stood at about 80 degrees, and the chirping was simply fast and furious. I was the witness of a curious little experiment in connection with this phenomenon. One of the green insects somehow got into a country dwelling-house and took up his residence on a pair of lace window curtains. There he chirped every night, and never ceased when a bright light was brought close to him and a public exhibition made of his method of fiddling with his wings. As the air in the room became heated during the day and did not for some hours fall to so low a temperature as the out-of-doors, this indoor cricket was bound by the rules of the game to chirp much more rapidly than the crickets out in the cool night air—and he did. His rate was considerably quicker than theirs. Moreover, when he felt the reflected heat of the lamp he began to chirp still more rapidly. This gave me an idea. As the night was still and a lighted lamp could be carried out-of-doors, I took the lamp and went out to a wild cucumber vine, on which several of the insects were chirping. I held it underneath the vine; and as soon as its warmth had permeated the air about the vine, the two or three insects that were there began chirping at a more rapid rate than the insects about them. I have never seen any scientific explanation of this phenomenon. It is easy to understand that a considerable degree of cold might make the insects' wings torpid; but why a heat of 80 degrees should set them to chirping more rapidly than the presumably agreeable one of 75 degrees is a little hard to understand.

There is another slight difficulty about this matter. Though the chirping of the out-of-door crickets is practically synchronous, so that for many minutes they are all absolutely in time, so far as the ear can reach out into the night, they do occasionally get out of step. For two or three seconds their chorus is in rag-time, or askew; but in another 'moment' they come into step again, and the full burst of the thing—chirp, chirp, chirp—is as measured as if it were timed by a metronome. This for a considerable time; then chee-chirp, chee-chirp, chee-chirp—they are out again. Now if the rate of the chirping were absolutely regulated by the temperature, it would seem that all the crickets within a comparatively limited out-of-door area would chirp perfectly and continuously in time. Possibly the crickets vary a trifle in recording the temperature, as the thermometers themselves do.

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W. J. B. Garrison

A RECORD EGG.

OVER 300 GUINEAS PAID FOR ONE OF THE GREAT AUK.

The first bid for the hitherto unrecorded egg of the great auk at Mr. Stevens's auction rooms yesterday was 150 guineas. The successful offer was £330 15s., and established a record.

Even the smaller, and, in comparison, poor specimen which was also offered yesterday fetched 180 guineas—five guineas more than in 1894, when it brought its lucky owner 175 guineas.

The history of this particular egg is interesting. A young fellow attended a furniture sale in Kent, riding to the place on his bicycle. Among some odd fossils he caught sight of two large eggs. Under ordinary circumstances he would have got the lot for about eight shillings, but a man who wanted the fossils started bidding, and ran him up to thirty-six shillings.

In the end the eggs, which travelled home tied up in a pocket handkerchief on the back of the bicycle, turned out to be those of the great auk, and one of them proving a handsome specimen fetched, though cracked, 260 guineas in 1894.

The increase in prices for these eggs has of late years been very remarkable. In 1856 an egg was sold at Stevens's for twenty guineas. Four duplicates belonging to the Royal College of Surgeons averaged £30 apiece in 1865. One of these in 1887 brought £168. A year later another specimen, bought privately for £18 in 1851, was knocked down at King-street, Covent-garden, for £225.

In 1892 Sir Vauncey Crewe had to give 300 guineas for an historical specimen, and twice that sum in the same year purchased a stuffed great auk and its egg. Since then a cracked specimen cost Mr. Middlebrook 300 guineas.

Mr. Stevens expressed a hope yesterday that the larger egg would remain in this country and find its way into the British Museum. Its destination is at present uncertain. Mr. Gardner, the natural history agent, bought both it and its fellow, presumably a commission.

FRANK B. GILBRETH,

BUILDING CONTRACTOR.

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SOLE PROPRIETOR OF

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4x5 Camera & plates.

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Joseph Emma Tel. 6

Woodward Tel. 753-3

Jackson 33 Gloucester

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& set of Bird Cards

Our Friends A. Calendar for 1899

Plates by Herrick

Published by Prang & Co.

Calendar for 1900

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Wednesday & Saturday all day

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Wolfeboro Center

Mr. F. Remond was forth
now done

